DATABASE ORGANIZATION GUIDELINES

"Online" Version 2

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DATABASE ORGANIZATION GUIDELINES

TABLE OF CONTENTS

LST4	Land Status
LSTM4	Land Status, Modified
MST4	Mineral Land Status
NGS1	National Geodetic Survey control points
NIP4	Nambe Irrigation Project
NPG4	Nambe Pueblo Grant
NWI	National Wetlands Inventory
NXW4	Noxious Weeds
OAM4	Other Agency Management
OGS1	Oil and Gas Sites
PAL4	Paleontological Resources
PBD4	Partitioned Land Boundary
PCT4	Pre-Commercial Thinning
PDT4	Prairie Dog Towns
PEA	Peabody Coal Lease
PIL4	Potentially Irrigable Land
PLS4	Public Land Survey
PPM4	Post and Pole Management
PST4	Pastures
PTC1	Photo Centers
QUAD3	USGS Quads
RBD4	Reservation Boundary
RCO4	Range Condition
RDS2	Roads
RRS2	Railroads
RSI4	Range Site Index
RSC4	Range Soil Condition
RSL4	Range Soils
RSP4	Range Site Production
RUN4	Range Units
RUT4	Range Utilization
RWA1/2	Range Water
SAB4	Study Area Boundary
SBD4	State Boundaries
SBI4	Spruce Budworm Infestation
SCD4	School Districts
SCT4	Surface Cover Type
SFT4	Surface Tracts
SLP4	Slope
SLS1/2/4	Soils
SPT1	Springs Ponds & Tanks
SRL1	Special Risk - Landfill
STR2	linear streams
STR4	Polygonal streams
SUR1	Survey Control - DLG Data
TDL4	Traditional Lands
TOW1	Towers
TRE1	Grazing Trends
TSU4	Timber Sale Units
TTS4	Timber Tracts and Stands

DATABASE ORGANIZATION GUIDELINES
INTRODUCTION

1. OBJECTIVE

The Database Organization Guidelines (DOG) originated as part of the library modification process in the early 1990's. At that time, there was a need to attempt to define a standard item structure for attribute data in order to efficiently re-work the data originally captured in MOSS. The DOG has since evolved into a collection of layer descriptions and item definitions for all data stored in ARC/INFO map libraries maintained at the GDSC. A consistent data structure provides the following benefits:

- Consistent item definitions across all libraries. This represents the first step towards the creation of a true data dictionary.
- Guidelines for creation of new libraries.
- Naming conventions and various other standards make it easier for users to know what kind of data they're dealing with.
- Applications based on the standard structure will be portable across reservations.
- The process will evolve into the creation of a standard symbol set for visual representation of the attribute data.

2. OVERVIEW

In most cases, designing a new attributing scheme for most data layers has been straightforward. Typically, the old MOSS ATTRIBUTE item has been broken up into a '-TYPE' item, usually a 2- or 3- character type designation (e.g. 'PHS' or 'LDR' for the RDS2 layer), and a '-NAME' item which contains a geographical name or some other spelled-out description of the feature. A '-CLASS' item has been used for more complex themes to introduce a second level of classification. Other variations of this basic scheme have also been used.

Please keep in mind the following points when consulting the Guidelines:

- The proposed item definitions have been derived by identifying logical entities that were present in the existing (pre-modification) attribute data, and cross-referencing them throughout the various libraries. Consideration has also been given to how the data might be used in the most common applications.
- This is not a complete document. There are over 300 distinct layer names in the library. Many of them occur only in a single library. Because of the statistical approach explained above, specific item definitions have been developed for about half of them, each of which occur at least twice.
- This is not a static document. While base theme structures are not likely to change markedly, future data entry projects may allow us to include new layers in the Guidelines, or to better define existing but less common layers.
- For several layers (such as SLS4, TTY4, RSI4, and others), the existing attribute data was complex and quite variable between libraries. In such cases, updating of the attribute data will rely on local users to provide information about their attributing scheme. It may happen for some layers that no universal

structure can be developed and that several versions will be entered in the Guidelines (see layer TTY4 as an example).

- Exceptions are allowed, but users are encouraged to adhere to the Guidelines whenever possible. Recent needs assessments have shown that most new data fit quite well into the existing Guidelines. The Guidelines are intended only as a minimum configuration, therefore addition of more items as needed to model a specific situation is encouraged. If the proposed structure does not fit for a particular reservation, then an adequate structure should be used instead, and identified as an exception.

- No data is being lost through the attribute restructuring process. Existing attribute structures which could not be reconciled with the Guidelines have been kept as exceptions, and are identified in the detailed list of layers later in this document.

- The Guidelines are not just about new item definitions. Several conventions have been defined; these should be followed as closely as possible.

Note to the user of Version 2...

As originally written, the DOG was intended to be a guide in the library modification process. In particular, it addressed renaming the old MOSS ATTRIBUTE item into more usable ARC/INFO items. Over time, the DOG has evolved into a data dictionary that has information pertaining to database development which may be beneficial throughout Indian Country.

Many comments are made throughout this document regarding how to re-configure various ATTRIBUTE occurrences. These comments pertain to libraries not yet modified, and are listed as a suggestion to GDSC staff as to how to proceed with a particular library modification. Anyone with information relevant to the data contained in those layers is welcome to share it with the developers of this document to ensure the data can be as usable as possible.

As stated above, the Database Organization Guidelines is neither a complete nor a static document. Data needs in Indian Country continually change. The DOG is intended to reflect those needs. To that end, any comments from the Indian Country GIS user community are welcome and encouraged.

DATABASE ORGANIZATION GUIDELINES
GENERAL RULES AND CONVENTIONS

- Numbers designating the feature type are included in all layers following the layer name.

1 - point	SPT1
2 - line	RDS2
3 - polygon	QUAD3
4 - network	PLS4
5 - link	INF5
6 - node	none
7 - regions (poly)	NWI7
8 - regions (network)	NWI8

- The layer name, including the number, is included in the item names; example: RDS-TYPE is now designated RDS2-TYPE. This avoids problems with duplicate item names when performing intersect operations on coverages.

- The most common item names are standardized to reflect the nature of their content as well as the item type:

layer-NUM	numeric	Generic denomination for numbers
layer-CODE	numeric	Reserved for display codes in AAT files (see below)
layer-TYPE	character	Used when a feature can be classified into various types (e.g. 'FLM' in item IST1-TYPE identifies flumes in Irrigation Structures)
layer-CLASS	character	Used to introduce a second level of classification. E.g., a stream may be of class 'DT' (Ditch) and of type 'I' (intermittent).
layer-NAME	character	Used for descriptive information about a feature. May be an actual geographic name (e.g. 'LAKE SUPERIOR' in LAK4-NAME), or a description (e.g. 'LOGGING ROAD' in RDS2-NAME)
layer-ANUM	character	Stands for alphanumeric. Used mostly for ID "numbers" which may also include characters, e.g. '09657X'
layer-ATT	character	Reserved for old ATTRIBUTE items which could not be restructured because of their complexity and have simply been renamed.

  The link between item names and types makes it easier to use the proper syntax for commands such as RESELECT, MOVEITEM, CALCULATE.

- The library insertion procedure (SCADDLAYER.AML) automatically computes the acreage of each polygon (for network layers) or the mileage of each arc (for linear layers), and adds an item called ACRES or MILES (without the layer name).

- Most Feature Attribute Table items have an alternate name to permit easier reference of that item.

- All polygonal features (except the QUAD3 layer) are converted to network coverages, i.e. they contain an .AAT file. Their .AAT files contain a '-CODE' item, which serves to identify arcs that are truly part of the feature, as opposed to arbitrary closures and tile lines created by the library. This item provides the following capabilities:
  - Reselecting out arbitrary closures.
  - Automatically hiding tile lines created during insertion into the library (their '-CODE' is 0) when using the ARCLINES command.
  - Displaying polygon outlines with standard symbols called from lookup tables based on the '-

CODE' value.

- Punctuation (i.e. non-alphanumeric symbols) is not allowed in layer names. As a general rule, attribute data also remain free of punctuation; in particular, underscores used as a substitute for a blank space have been removed, and abbreviated words are not followed by a period. Slashes are allowed in the case of a single feature sharing several attributes: a road designated as US highway 10, state highway 36, and state highway 40 is attributed US10/SH36/SH40. Other punctuation symbols are allowed only if they are essential to the meaning of the attribute.

- All "old" layers (<layer>.O, <layer>MOSS, <layer>OLD, etc.) or any MOSS layers that are designated to remain essentially unchanged for any reason, are renamed to <layer><number>OLD<year of insertion>; example: RDS.O, inserted into the library in 1988, will be changed to RDS2OLD88. When in doubt, try to use the date that best represents the time when the data was originally collected and inserted, rather than the date of a minor update. Be aware that this date MAY NOT represent the vintage of that data.

- Unusually large layers which would run up against the 10,000 arcs per polygon limit upon extraction must be split into several pieces as needed to avoid this limitation (usually halves or quarters). Layers should be split along tile lines; add a descriptive abbreviation such as E, W, NE, SW... to the layer name, e.g. LCT4NW for the northwest quarter of the LCT4 layer.
  Note: This is no longer a problem in Arc/Info version 7.x, however data developed in earlier versions still exists as described.

- All character-type attributes are in upper case except for the soils layers, or whenever case is significant. This makes it easier to use INFO which is case-sensitive.

- Items which hold encoded information, such as -TYPE or -CLASS, have a fixed width.

- Abbreviations must be avoided except when the attribute exceeds the 30-character limitation; in that case standard Service Center abbreviations listed in Appendix A are used whenever possible.

- All standard items must be present even if they do not carry any data. They must be in the same order as shown in the Guidelines. This can be important if an application uses redefined items. Usually the shorter "type" items come first, followed by the longer "name" items.

- All non-standard items must follow the standard items.

- "Null" attributes are treated in three different ways:

  - "blank" means "unnamed"; this applies, for instance, to unnamed roads or streams for which item RDS2-NAME or STR2-NAME is left blank.

  - "negative eights" ('-8' up to '-8888', depending on item width) means "unknown": the item may have a valid, non-null value but for some reason that value is unknown; used particularly to indicate that the type or class of a feature is unknown.

  - "negative nines" ('-9' up to '-9999', depending on item width) means "OUT", and is used for "island" polygons.

  Logically, the distinction between "blank" and '-8' is that the former is used when the feature is known not to have a name, while the latter is used more as a flag to indicate unknown data and invite further research to

acquire the missing information. Typically the "blank" option is used on -NAME items, while eights are used for -TYPE and -CLASS items. The distinction between '-8' and '-9' is that the former designates unknown data for a feature that belongs to the coverage, while the latter applies only to features that do not belong to the coverage.

- Label errors are not permitted. Label errors are defined as no or more than one label point in a given polygon. Any "out island" polygons within a continuous polygon coverage should have labels assigned and attributed '-9999'.

- -TYPE and -CLASS items usually have a set of allowed values, which is listed for each layer in this document. These sets have been compiled after examination of the data in existing libraries. If needed, new types or classes will be added. In addition to the allowed values, '-88' and '-99' may be used to indicate unknown types and classes or "island" polygons. Theoretically blanks are not permitted because each feature must have a type and a class, even if it's unknown.

- The display code (-CODE item in .AAT files) normally takes on one of two values:
  0: Arbitrary closure
  1: Arc is part of the feature
  When the symbology for a layer is derived from a combination of items, more values are assigned to the display code in order to account for all possible combinations. Examples are layers PLS4 and STR2. Their valid codes are listed under these layers' specific rules.
  Note: some linear layers, such as RDS2, do not need a display code because the symbology can be derived directly from a single item, such as RDS2-TYPE.

- Items carrying names of people use the following format:
  <Last name> -- <First name>

- All layers not described in the Detailed Rules are present only once or twice in the libraries. Restructuring is left to the best judgment of the person working on it. Whenever possible, attributing schemes inspired by those already in use (with TYPE, CLASS, NAME items, etc...) will be adopted. Otherwise, ATTRIBUTE will simply be renamed <layer>-ATT. Be sure to check in the data dictionary if the layer being worked on, or one similar to it, already has an existing structure, and if so, try to be consistent.

- New layers will be added to the Guidelines as they are created or modified.

- All resource data are stored as ARC/INFO library layers in UTM coordinates with no offsets.

- All USA library data are stored in Albers projection.

DATABASE ORGANIZATION GUIDELINES

DETAILED RULES

ABD4

Agency Boundary

Bureau of Indian Affairs Agency boundaries.

Source

Boundaries are defined by the particular BIA Agency.

Item Definitions

Datafile Name: **ABD4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	ABD4-NAME		30	30	C	-	N	Agency name

Datafile Name: **ABD4.AAT**

33	ABD4-CODE	1	1	I	-	CO	Display code

Data Values

Name of the BIA Agency.

Comments

AGR4

Agriculture

Agricultural fields.

Source

Defined from aerial photography or satellite imagery.

Item Definitions

Datafile Name: **AGR4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	AGR4-NAME	30	30	C	-	N	

Datafile Name: **AGR4.AAT**

33	AGR4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

ALB4

Allotment Boundaries

Allotment boundaries.

Source

Item Definitions

Datafile Name: **ALB4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	ALB4-NAME	30	30	C	-	N	

Datafile Name: **ALB4.AAT**

33	ALB4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

ARC1/2/3/4

Archeological Sites

This layer shows areas of significant ancient and historical cultural features.

Source

The features are most often captured from USGS 7.5' quads, but several libraries contain the results of specific archaeological studies.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **ARC.PAT, ARC1.PAT, ARC3.PAT, ARC4.PAT**							
25	ARCn-TYPE		4	4	C	-	T	Feature category
29	ARCn-ANUM		30	30	C	-	A	ID number of the archeological site. May also be a name.
Datafile Name: **ARC2.AAT**							
33	ARCn-TYPE	4	4	C	-	T	Feature category
29	ARCn-ANUM	30	30	C	-	A	ID number of the archeological site. May also be a name.
59	ARC2-CODE	1	1	I	-	CO	Display code

Data Values

ARCn-TYPE	ARC	archeological site
	BGR	burial ground
	CR	?
	PAR	?
	SAF	?
	SUR	surveyed

Comments

BCF1/2/4

Buildings and Cultural Features

Although dominated by buildings, other man-made features are contained in this layer.

Source

Usually USGS 7.5' quad sheets, although other sources may be used.

Item Definitions

Datafile Name: **BCF1.PAT, BCF2.AAT, BCF4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	BCFn-TYPE	3	3	C	-	T	Type of structure or feature (see below)
28	BCFn-ANUM	6	6	C	-	A	Building inventory number (may be alphanumeric)
34	BCFn-NAME	30	30	C	-	N	may be a description ('BRICK HOUSE', 'RODEO GROUNDS', 'RUINS' ...) may be an actual name ('SANTO NINO CHURCH'...)
Datafile Name: **BCF2.AAT**							
33	BCF4-CODE	1	1	I	-	CO	Display code

Data Values

BCFn-TYPE (items with * derived from USGS DLG datasets)
ABD: abandoned feature
AIR: airports, landing fields,
ATF: athletic field*
ATR: athletic track*
BCN: beacons
BLD: buildings, habitable
BPK: ballpark
BRD: bridge
BRN: barn
CAN: canal lock
CGR: campgrounds
CEM: cemeteries
CHR: churches
COR: courthouse*
CRL: corral
CRS: covered reservoirs
CTH: city hall*
DAM: dam*
DE: dead end
DIT: drive-in theater*
DOC: boat dock
DRG: drag strip*
DRI: drive-in theater
DRH: drill hole

FCI: Federal correction institution
FRG: fairgrounds*
GAT: gate
GRD: guard station
GST: gauging station
HSE: houses
HSP: hospital*
HST: homesites
GOL: golf*
GRP: gravel pit*
GRV: graves
GST: gaging stations
JET: jetty*
LEV: levees*
LMO: landmark object
LTR: look-out tower
MNE: mine
MSC: miscellaneous (cliff dwelling)
MUN: municipal building
MWV: microwave station
OB: other buildings (SPOKANE)
OLK: scenic overlook
PCN: picnic areas
PGR: playground

PKG: parking lot
PRK: parks
PRM: private residence (mobile) (Spokane)
PRP: private residence (permanent) (Spokane)
PST: post office
QAR: quarry
RCA: recreation area
RCT: race track
RDT: radio tower
RND: railroad roundhouse
SCH: schools
SDP: sewage disposal plant*

SDM: stadium*
SKI: ski lift or tow bar
SWP: swimming pool*
TGU: tribal-, gov't- or utility-owned (Spokane)
TPK: trailer parks
TWN: town*
UNV: universities
URB: urban area*
WM: windmill
WT : water tank (Spokane)

BCFn-ANUM

Comments

Layer name changed from MOSS-era BLD1/2/3

Areal extent of structures:
No arbitrary lines may be used to digitize structures. All structures will be in BCF1 unless their areal extent is clearly indicated on the quad, and large enough to be meaningful as a polygonal feature.

Conversion of existing items (other than 'ATTRIBUTE'):

ACOMA:	bld1-num	-> bcf1-anum
	bld1-type	-> bcf1-name
	bld3-num	-> bcf4-anum
	bld3-type	-> bcf4-name
ALACOU:	house-att	-> bcf1-name
JICARI:	bld1-att	-> bcf1-name
	bld1-type	-> separate item bcf1-code (0 or 1)
	bld3-att	-> bcf4-name
KALISP:	bld1-att	-> bcf1-anum (if 2-digit number) bcf1-type (if '999')
NPAFIR:	bld1-att	-> bcf1-name
	bld1-num	-> bcf1-anum
	bld3-att	-> bcf4-name
	bld3-num	-> bcf4-anum
YAVAPA:	has a bld3-att item but all records are blank.	

Layers BCF4EAST and BCF4WEST exist in ONEIDA library.

BGD4

Big Game Distribution

Source

Defined from aerial photography .

Item Definitions

Datafile Name: **BGD4.PAT** (NAMBET)

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	BGD4-ATT	16	16	C	-		

Datafile Name: **BGD4.PAT** (ISLETA)

25	BGD4-SPEC	10	10	C	-		
35	BGD4-TYPE	20	20	C	-		

Datafile Name: **BGD4.AAT**

33	BGD4-CODE	1	1	I	-	CO	Display code

Data Values

For NAMBET

BGD4-ATT

MDEER_ELK

MDEER_ELK_BGHSHEEP

For ISLETA

BGD4-SPEC

MULE DEER, WILD HORSE

BGD4-TYPE

WINTER CONC 186

Comments

BGR

Big Game Range

Source

Defined from aerial photography .

Item Definitions

Datafile Name: **BGR.PAT** (UMATIL)

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	ATTRIBUTE	30	30	C	-		

Data Values

AG, E, MD, SR, WR, WTD

Comments

CBD4

Timber Compartment Boundary

This is a management unit used by foresters that is comprised of timber stands. This unit is used to aid in timber sale planning.

Source

Item Definitions

Datafile Name: **CBD4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	CBD4-COMP	3	3	I	-	C	Compartment number
28	CBD4-SUB	3	3	I	-	S	Sub-compartment number
31	CBD4-NAME	30	30	C	-	N	Geographic name of the compartment (if any)

Datafile Name: **CBD4.AAT**

33	CBD4-CODE	1	1	I	-	CO	Display code

Data Values

CBD4-COMP
CBD4-SUB

Comments

The old ATTRIBUTE item consists of either:

a number: placed into CBD4-COMP
two numbers separated by a dash: placed into CBD4-COMP and CBD4-SUB, respectively
a geographic name: placed into CBD4-NAME

Special cases:

- BLAKFT: roman numerals are used for CBD4-COMP (4,4,C), and a single character for CBD4-SUB (1,1,C).

- ACOMA: item CBD-ATT is either ’01’ or ’02’, therefore presumably goes into CBD4-COMP.

- HOOPA: item CBD-SUB is 5,5,I (although last 3 digits always ’000’); move CBD-ATT to CBD4-NAME.

- MENOME: item CBD-ATT goes into CBD4-COMP; keep special item YR-ENTRY.

CFI1

Continuous Forest Inventory

These points are the centers of stand inventory plots. The plots are inventoried every ten years to determine forest growth and ultimately the annual allowable cut for logging.

Source

Plotted on quad maps by local forestry staff.

Item Definitions

Datafile Name: **CFI1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	CFI1-ATT	5	5	C	-		A

Data Values

Comments

Rename ATTRIBUTE, PLOT (ALACOU), PLOTS (WARMSP), CFI-ATT (KALISP, SPOKAN), CFI.ATT (MENOME).

Special cases:

- HOOPA: keep existing structure (INV-CODE is the equivalent of CFI1-ATT).

- HULAPI: CFI1-ATT is 11,11,C.

CLB4

Ceded Lands Boundary

This layer depicts a reservation's boundary before land was ceded or removed from the reservation.

Source

USGS quad maps or user-defined manuscripts.

Item Definitions

Datafile Name: **CLB4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	CLB4-NAME	30	30	C	-	N	Name of ceded lands

Datafile Name: **CLB4.AAT**

33	CLB4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

COD4

Council Districts

Tribal council districts

Source

User-defined manuscripts.

Item Definitions

Datafile Name: **COD4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	COD4-NAME	35	35	C	-	N	Name of councilperson.
60	COD4-DIST	11	11	C	-	D	Name of council district.

Datafile Name: **COD4.AAT**

33	COD4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

COMM4

Community Boundaries

Boundaries of Indian communities.

Source

USGS quad maps or user-defined manuscripts.

Item Definitions

Datafile Name: **COMM4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	COMM4-NAME	30	30	C	-	N	Community name

Datafile Name: **COMM4.AAT**

33	COMM4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

CON2

Contours

A linear depiction of points which lie at the same elevation above a known elevation. Also known as "hypsography" or "hypso".

Source

Typically, USGS DLG files but can also be derived from DEMs. For MAKOZ CON2 layer, contour lines were digitized from circa 1930 1:300 tribal maps.

Item Definitions

Datafile Name: **CON2.AAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
33	CON2-TYPE	3	3	C	-	T	Type of contour line (see below).
36	CON2-ELEV	5	5	I	-	E	Contour elevation

Data Values

CON2-TYPE
The following types are derived from the USGS Symbols Publication:

X	Index
I	Intermediate
S	Supplementary
AX	Approximate Index
AI	Approximate Intermediate
FO	Feathering-out Treatment
CC	Carrying Contour
DC	Depression Contour
ADC	Adjacent Depression Contour
SDC	Supplementary Depression Contour

CT	Cut at Road or Railroad
FL	Fill at Road or Railroad
CDC	Contouring at Ditches and Canals
EDL	Large Earth Dam or Levee
EST	Best Estimate
DPE	Best Depression Estimate
SL	Shore Line
ISL	Indefinite Shore Line
DPC	Depth Curve

CON2-ELEV
Elevation of the contour, typically in feet.

Comments

CTY4

County Boundaries

County boundaries.

Source

Primarily taken from the USGS quad sheets as part of the base theme development.

Item Definitions

Datafile Name: **CTY4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	CTY4-NAME	30	30	C	-	N	County name
55	CTY4-FIPS	3	3	I	-	CF	County FIPS code

Datafile Name: **CTY4.AAT**

33	CTY4-CODE	1	1	I	-	CO	Display code

Data Values

CTY4-NAME
Name of the county
CTY4-FIPS
Federal Information Processing Standard three integer county code.

Comments

CTY4-NAME includes only the name; no county designation or punctuation is allowed.

CUL1/4

Cultivated Sites and Areas

Source

Aerial photography or satellite imagery.

Item Definitions

Datafile Name: **CUL1.PAT, CUL4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	CULn-NAME	30	30	C	-	N	

Datafile Name: **CUL4.AAT**

33	CUL4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

ESC1/2

Escarpments

Source

Item Definitions

Datafile Name: **ESC1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	ESC1-NAME	n	n	C	-	N	

Datafile Name: **ESC2.AAT**

33	ESC2-CODE	1	1	I	-	CO	Display code

Data Values

Comments

FFR4

Fire Fuel Rating

Source

Item Definitions

Datafile Name: **FFR4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	FFR4-ATT	30	30	C	-	A	Descriptive name

Datafile Name: **FFR4.AAT**

33	FFR4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

FHA4

Forest Habitat

A combination of timber and terrain (slope) information.

Source

Item Definitions

Datafile Name: **FHA4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	FHA4-ATT	30	30	C	-	A	Descriptive name

Datafile Name: **FHA4.AAT**

33	FHA4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

Rename ATTRIBUTE or FHA-ATT.

Layers FHA(NE NW SE SW)4 exist in the NCHEYE library.

FIG1

Fire Ignition

The starting (ignition) point of forest or range fires are shown here.

Source

Field survey.

Item Definitions

Datafile Name: **FIG1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	FIG1-ATT	30	30	C	-	A	Descriptive name

Data Values

Comments

Layer FIGOLD1 exists in NCHEYE library.

FLC4

Forest Land Class

Source

Item Definitions

Datafile Name: **FLC4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	FLC4-ATT	30	30	C	-	A	Descriptive name

Datafile Name: **FLC4.AAT**

33	FLC4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

FLD4

Flood Zones

Source

FEMA

Item Definitions

Datafile Name: **FLD4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	FLD4-ATT	30	30	C	-	A	Descriptive name

Datafile Name: **FLD4.AAT**

33	FLD4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

FMI4

Forest Management Inventory

Source

Defined from aerial photography

Item Definitions

Datafile Name: **FMI4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	FMI4-CATEGORY	15	15	C	-	C	
40	FMI4-CATCODE	2	2	C	-	FC	
42	FMI4-DESC	23	23	C	-	D	
65	FMI4-TYPE	2	2	C	-	T	
67	FMI4-DENSCODE	1	1	I	-	DC	
68	FMI4-DENSPCT	5	5	C	-	FD	
73	FMI4-USTORY	1	1	C	-	U	
74	FMI4-AGE	7	7	C	-	A	
81	FMI4-AGECODE	1	1	I	-	AC	
82	FMI4-CROWNCLO	6	6	C	-	CC	
88	FMI4-CROWNDESC	14	14	C	-	CD	
102	SYMBOL	3	3	I	-		
Datafile Name: **FMI4.AAT**							
33	FMI4-CODE	1	1	I	-	CO	Display code

Data Values

FMI4-CATEGORY	FORESTED, NON-COMMERCIAL, NON-FORESTED
FMI4-CATCODE	F, NC, NF
FMI4-DESC	JUNIPER, MIXED CONIFER, PINE MIXED, PONDEROSA PINE/PINYON, INTERMOUNTAIN HARDWOODS, PINYON AND JUNIPER, GRAZING, RIPARIAN, WATER
FMI4-TYPE	J, MC, PM, PP, IH, PJ, G, R, W
FMI4-DENSCODE	0, 1, 2, 3, 4
FMI4-DENSPCT	0-9, 10-25, 26-50, 51-75
FMI4-USTORY	G, blank
FMI4-AGE	<50, 50-100, 100-150
FMI4-AGECODE	0, 1, 2, 3
FMI4-CROWNCLO	0-25, 25-50, 50-100
FMI4-CROWNDESC	OPEN, MEDIUM CANOPY, CLOSED CANOPY
SYMBOL	0, 2, 3, 4, 14, 15, 16, 22, 35

Comments

FMU4

Forest Management Units

These units can be either a subunit for a timber sale or an entire timber sale unit. They are usually based on watersheds or other geographic features.

Source

Item Definitions

Datafile Name: **FMU4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	FMU4-ATT	n	n	C	-	A	

Datafile Name: **FMU4.AAT**

33	FMU4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

Rename ATTRIBUTE. This item is similar in format to ATTRIBUTE for the FHA layer.

WARMSP: keep current items FMU-FPU, FMU-MU, FMU-SPU. Drop items FMU-SYM (always 0) and FMU-ATT (always blank or 'OUT').

HOOPA: FMU layer is almost identical to CBD layer. Items MGT-NAME and MGT-CODE are identical to CBD-ATT and CBD-SUB. Arcs are close but do not coincide exactly. Only major difference is along rivers where FMU follows the centerline and CBD the river banks.

FRM4

Farmlands

This theme describes cultivated land, typically not-irrigated. However, in some cases irrigated lands may be defined. The data only describes "Ag and Non-Ag" areas and was derived from LANDSAT thematic mapper data at scales of 1:50,000 or 1:100,000. This information is primarily useful to describe the general acreage of cultivated lands.

Source

Aerial photography or satellite imagery.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **FRM4.PAT**							
25	FRM4-TYPE	4	4	C	-	T	
Datafile Name: **FRM4.AAT**							
33	FRM4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

Rename ATTRIBUTE (FRM layer) or FRMA-ATT (FRMA layer). Shorten features labeled like 'UNKNOWN2' to 'UNK2'.

FRO1/4

Fire Occurrence

Fire origins and perimeters are shown here.

Source

Manuscripts derived from aerial photographs or field examination.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **FRO1.PAT, FRO4.PAT**							
25	FROn-TYPE	2	2	C	-	T	Shows the cause of the fire. May be a 1-digit number (FRO1-TYPE in NPAFIR), or a character ('L', 'M' or
	FROn-TYPE (multiple occurrences)	n	n	C	-	T	'P', part of ATTRIBUTE in NCHEYE). Look into consolidating both types, if possible.
27	FROn-YEAR (general case)	4	4	C	-	Y	Year of occurrence
	FROn-YEAR (multiple occurrences)	n	n	C	-	Y	
31	FROn-BURN	30	30	C	-	B	A character string identifying the fire
61	FROn-ANUM	n	n	C	-	A	The fire's ID number
Datafile Name: **FRO4.AAT**							
33	FRO4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

- (n = 1,4,6)

- A 6-character string beginning in the 3rd column of ATTRIBUTE in layer FROA (MESCAL only, format '99999X').

Special cases:

- MESCAL (FRO1): ATTRIBUTE is in the form 'X99' (the last 2 digits are not a year). This is assumed to be some ID number and will be moved into FRO1-ANUM.

- NCHEYE: ATTRIBUTE in the form '99X'(FROA), or FROC-ATT in the form '9999X'(FROC). First 2 or 4 digits are the year of occurrence and go into FRO4-YEAR, last character goes into FRO4-TYPE. For FROB, ATTRIBUTE is only a description that goes into FRO4-BURN.

Handling of multiple occurrences: some polygons have attribute data from several fires occurring over the years. In

such a case each relevant item will carry the information from each fire, in chronological order, and separated by a '/'. For example, if ATTRIBUTE is '70P/83M', FRO4-TYPE will be 'P/M' and FRO4-YEAR will be '1970/1983'.
In the future, a separate layer for each year will be created (ex.: FRO923). The structure will be as above, except for item FRO1-YEAR/FRO4-YEAR, no longer needed.

GEF3/4

Geological Features

The sub-surface structure of the earth.

Source

For FTPECK GEF a variety of source maps were used:

Geologic Map of the Wolf Point Quadrangle, USGS, 1955, Roger Coltron, 1:62,500
Geologic Map and Generalized Sections of the Otter Creek Quad, USGS, 1948, Coltron, 1:62,500
Geologic Map and Sections of the Fort Peck Area, USGS, 1948-50, Fred Jensen, 1:48,000
Geologic Map of the Smoke Creek-Medicine Lake-Grenora Area, USGS, 1946-48, G.B.Gott, 1:62,500
Geologic and Structure Contour Map of the Fort Peck Reservation, USGS, 1956, Coltron, 1:125,000

Item Definitions

Datafile Name: **GEF.PAT** (FTPECK)

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	GEO-TYPE	4	4	C	-	-	
29	GEO-FORMATION	25	25	c	-	-	
54	GEO-DESCRIPTION	25	25	C	-	-	
79	FAULT	3	3	C	-	-	

Datafile Name: **GEF4.PAT** (SPOKAN)

25	GEF4-ATT	4	4	C	-	-	

Datafile Name: **GEF4.PAT** (WINDRV)

25	GEF4-CODE	4	4	C	-	-	

Data Values

For FTPECK GEF

TYPE	Qa, Qc, Tal, Tcb, Tlb, Tlc, Tls, Ttrl, Ttrm, Tusb, rc, rs
FORMATION	ALDWELL, CRESCENT, LYRE, TWIN RIVER, UNKNOWN, UNNAMED
DESCRIPTION	ALLUVIAL, GLACIAL, SEDIMENTARY
FAULT	-8, -88

For SPOKAN GEF4

GEF4-ATT	C/A, C/OD, K/G, K/P, K/Q, K/QG, P/Z, PC/E, PC/M, PC/S, PC/T, Q, T/C, T/G, T/S, W

For WINDRV GEF4

GEF4-CODE	H2O, JTru, KJm, Kc, Kf, Kl, Km, Kmt, Kmv, MDu, OCu, PMu, Pu, Qa, Qg, Qls, Qsa, Qt, Qtr, Ta, Taw, Tf, Ti, Tru, Tt, Tu, Tut, Tw, Twg, Twi, pCr

Comments

The WARMSP library includes layers GEF1, GEF2, and GEF3 which contain no geological data and should be renamed to BCF1, BCF 2 and BCF3, respectively.

GEO1

Geographic Coordinates (Lat/Long) Grid

The latitude and longitude points in this layer can be used to geo-reference features in other layers.

Source

A GEO1 coverage can be created by running the Service Center standard tool SCGEO.

Item Definitions

Datafile Name: **GEO1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	GEO1-LONG	10	10	C	-		Longitude
35	GEO1-LAT	10	10	C	-	Latitude	

Data Values

GEO1 consists of a fine grid of points at 1-minute intervals and a coarser grid of points at 7.5-minute intervals. Only the 7.5-minute points are attributed with a latitude and longitude. The format for items GEO1-LONG and GEO1-LAT is 'DDD MM SS' (degrees minutes seconds) followed by the letter N (North) or W (West). Examples:

GEO1-LONG: 107 22 30W
GEO1-LAT: 37 07 30N

Comments

GRT4

Land Grants

This dataset depicts Spanish land grants in New Mexico, Arizona, and California.

Source

Grant boundaries are typically obtained from 7 1/2' quadrangles, although other sources such as BLM 100K ownership maps may be consulted.

Item Definitions

Datafile Name: **GRT4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	GRT4-NAME	30	30	C	-	N	Name of the land grant.

Datafile Name: **GRT4.AAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
33	GRT4-CODE	1	1	C	-	CO	Display code

Data Values

Comments

Given the complexity and overlapping of many grants, this dataset is a candidate for region topology.

GRZ4

Grazing

Source

Field inspection.

Item Definitions

Datafile Name: **GRZ4.PAT** (COLRIV)

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	GRZ4-UNIT	1	1	I	-	-	
26	GRZ4-SUB	2	2	C	-	-	

Datafile Name: **GRZ4.PAT** (SANCAR)

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	ATTRIBUTE	30	30	C	-	-	

Data Values

For COLRIV
- GRZ4-UNIT 0, 1, 2, 3
- GRZ4-SUB 01, ..., 13

For SANCAR
- ATTRIBUTE 1, 2, 3, 4, 5, WATER

Comments

HOG1

Hogans

Source

Item Definitions

Datafile Name: **HOG1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	HOG1-NAME	n	n	C	-	N	

Data Values

Comments

HSP1/4

Helispots

This layer, used primarily with fire applications, shows helicopter landing spots as points. Helibases are helispots large enough to be polygonal.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **HSP1.PAT**							
25	HSP1-NAME	6	6	C	-	N	An alphanumeric identifier
Datafile Name: **HSP4.PAT**							
25	HSP4-NAME	15	15	C	-	N	Only value is 'FOREST HELISPOT' (ZUNI).
Datafile Name: **HSP4.AAT**							
33	HSP4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

- Special case (TAOS): ATTRIBUTE is <number>_<name>. Use 2 items:
    - HSP1-NUM 2,2,I (to allow for more than the current 9 records).
    - HSP1-NAME n,n,C.

Hydrology

Surface water features

Source

USGS DLG files

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **HYD1.PAT**							
25	HYD1-NAME	6	6	C	-	N	An alphanumeric identifier
Datafile Name: **HYD4.PAT**							
25	HYD4-NAME	15	15	C	-	N	
Datafile Name: **HYD4.AAT**							
33	HYD4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

INF1/2/5

Interior Fence Lines

Fence locations usually associated with a range application.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **INF1.PAT**							
25	INF1-TYPE	3	3	C	-	T	Type of fence feature
Datafile Name: **INF2.AAT**							
33	INF2-TYPE	3	3	C	-	T	Type of fence feature
36	INF2-ANUM	5	5	C	-	A	ID numbers of fences Special case (COCHIT, ZIA):

Data Values

INF1-TYPE
- CRL: corral
- CGD: cattleguard
- GAT: gate

INF2-TYPE
- ELF: electric fence
- FEN: fence
- GAT: gate
- NBR: natural barrier

Comments

IRD2

Irrigation Ditches

Source

This layer illustrates the linear components of an irrigation scheme. The other non-linear parts of the irrigation infrastructure are likely to be found in the "IST1" (irrigation structure) layer.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **IRD2.AAT**							
	IRD2-ATT	n	n	C	-	A	

Data Values

Comments

Rename ATTRIBUTE or IRD-ATT.

Further research into ATTRIBUTE is needed to identify different types for an IRD2-TYPE item (DRAIN, LATERAL, CANAL, SYPHON, etc...).

IRL4

Irrigated Lands

Areas of agriculture or rangeland served by irrigation networks.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **IRL4.PAT**							
25	IRL4-TYPE	4	4	C	-	T	
Datafile Name: **IRL4.AAT**							
33	IRL4-CODE	1	1	I	-	CO	display code

Data Values

Comments

Rename ATTRIBUTE or IRL-ATT (WINDRV), except for
'UNKNOWN - "BLACK HOLE"' (change to '-888'). Current values are:

HI
HINA
PI
UBWU
JTU
LHU
LWU

Exception: IRLA layer (NAMBE). ATTRIBUTE is a number; rename to
IRL4-NUM 3,3,I.
No reservation has both a type and a number.

IST1 IST1 IST1 IST1

Irrigation Structures

Often used in conjunction with the "IRD2" layer, this layer contains the non-linear parts of an irrigation scheme, such as culverts, bridges, dams, ETC.

Source

Item Definitions

Datafile Name: **IST1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	IST1-TYPE	3	3	C	-	T	
28	IST1-ANUM	3	3	C	-	A	(FLATHD)
28	IST1-ANUM	12	12	C	-	A	(FTBELN)
	IST1-NAME	30	30	C	-	N	(NPAFIR IST-ATT only)
	IST1-STATUS		4	4	C	-	S (FTBELN only)

Data Values

IST1-TYPE

BRD:	Bridge	CHK:	Check
CV:	Culvert	CVC:	CulvertC
CVR:	CulvertR	DAM:	Dam
DRP:	Drop	DRC:	Drop Chute
FLM:	Flume	PMP:	Pump, Pumping Plant
TRN:	Turn, Turnout	UDR:	Underdrain
WST:	Waste, Wasteway	WER:	Weir

IST1-ANUM An ID number used in FLATHD and FTBELN

IST1-NAME Name of a structure (e.g. 'RIO PUEBLO DE TAOS DAM')

IST1-STATUS Status of a structure; values are 'PROP', 'PRES', 'PES'

Comments

IST1-ANUM not needed for NPAFIR.

LAK4

Lakes and Reservoirs

This layer represents polygonal water bodies. It is networked so that streams and rivers flowing into and out of these water bodies will have connectivity through them. The STR2 layer holds the connectivity.

Source

USGS 7.5' quadrangles.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **LAK4.PAT**							
25	LAK4-CLASS	2	2	C	-	C	Feature category
27	LAK4-TYPE	2	2	C	-	T	Feature type
29	LAK4-NAME	30	30	C	-	N	Lake name (or island name)
59	LAK4-QUAL	3	3	C	-	Q	Additional feature description
62	LAK4-ELEV	5	5	I	-	E	Feature elevation
Datafile Name: **LAK4.AAT**							
33	LAK4-CODE	1	1	I	-	CO	Display code

Data Values

LAK4-CLASS

- AK - Alkali flats
- BG - Bog
- FH - Fish hatchery
- IS - Island
- IW - Industrial waste pond
- LK - Lake
- MR - Marina
- MS - Marsh

PD - Pond
RV - Reservoir
SP - Sewage pond
ST - Streams
TK - Tank
UP - Upland
WL - Wetlands
WM - Wooded marsh

LAK4-TYPE	I - Intermittent P - Perennial D - Dry
LAK4-QUAL	HI - High water line LO - Low water line TAL - Tailings pond

Comments

Use only proper names for LAK4-NAME.

Variations of this layer name as follow:

LAK4_100K	PYRAMD
LAK4NE	UINORY
LAK4NW	UINORY
LAK4SE	UINORY
LAK4SW	UINORY
LAKES	NAV100
LAKN4	OSAGE
LAKNE	CHEYRV, ROSEBD
LAKNE4	STROCK
LAKNW	CHEYRV, ROSEBD
LAKNW4	STROCK
LAKORIG	COLVIL
LAK	WARMSP
LAKSE	CHEYRV, ROSEBD
LAKSE4	OSAGE, STROCK
LAKSW	CHEYRV, ROSEBD
LAKSW4	OSAGE, STROCK

LCN, LCS, LCT

Land Cover Type

Land cover areas located and categorized by remote sensing methods.

Source

LCN - National High Altitude Photography Program
LCS - SPOT
LST - Landsat Thematic Mapper

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: LCT4.PAT							
25	LCT4-ATT	n	n	C	-	A	
Datafile Name: **LCT4.AAT**							
33	LCT4-CODE	1	1	I	-	CO	display code

Data Values

Comments

Data availability and layer names:

LCN -	WARMSP
LCS -	FTAPAC
LCT -	FLATHD, SANCAR, WARMSP
LCT4NE -	WEARTH
LCT4NW -	WEARTH
LCT4SE -	WEARTH
LCT4SW -	WEARTH

Exceptions to above attribute structure: FLATHD and WEARTH have their own structure (GRID-CODE, CLASS) and their data does not look at all like the other ATTRIBUTE items.

LGU4

Logging Units

Areas defined by foresters for logging activities. Alternative to TSU layer.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **LGU4.PAT**							
25	LGU4-NAME	30	30	C	-	N	
Datafile Name: **LGU4.AAT**							
33	LGU4-CODE	1	1	I	-	CO	display code

Data Values

LGU4-NAME Rename ATTRIBUTE (NCHEYE, YAKAMA) or LGU-ATT (FLATHD). Remove 'LU' at end of name (FLATHD).

Comments

LSE4

Leases

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **LSE.PAT** (FTBELN)							
25	LSE-ATT	6	6	C	-	-	An alphanumeric identifier
31	LSE-SYM	3	3	I	-	-	
Datafile Name: **LSE3.PAT** (LWBRUL)							
25	LEASE-NUM	5	5	I	-	-	
30	TYPE	2	2	I	-	-	
32	BEGYR	4	4	I	-	-	
36	ENDYR	4	4	I	-	-	
40	LEASE_NO	7	7	C	-	-	

Data Values

For FTBELN

LSE-ATT	2 to 4 digit lease number, OWNUSE, UNK

For LWBRUL

LEASE-NUM	0...135 with gaps
TYPE	0, 20,...,24
BEGYR	0, 87, 90,...,95
ENDYR	0, 95,...,99
LEASE_NO	21-, 22-, 23-, 24- plus three-digit number, Fee, Housing, SU, SU1,...,6

Comments

Land Status

LST4 represents land ownership characteristics. It contains property boundaries for surface and subsurface ownership tracts, public land survey network (PLS4), and survey adjustment lots.

This layer forms the base integrated spatial data for the Land Title Mapping System (LTMS) application. LTMS uses the LST4 layer to derive three other layers: PLS4 (Public Land Survey), SFT4 (Surface Tracts) and MST4 (Mineral Tracts); refer to the detailed description of these layers. SFT4 and MST4 exist specifically in conjunction with LST4. PLS4 may of course exist by itself, but when LST4 exists, PLS4 should be derived from it rather than created separately.

The layer designation LST4 is reserved for land status data used by the LTMS application. The item structure may not be deleted or re-ordered, but adding additional items to the end of the table is permitted. Land status data that do not fit this model must be stored in layer LSTM4.

The Service Center recommends that new land status data be created following this model, even if LTMS is not yet available for that location. In that case, production of the three derived layers can be performed at the Service Center.

Source

LST4 may be geo-copied from original PLS4 geographic data, then automated in two steps. First, zoom-transfer of land status plat maps representing ownership boundaries and survey adjustment lots onto 7.5' USGS quads. Second, data entry of these boundaries.

Item Definitions

Datafile Name: **LST4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	PLS4-TOWN	4	4	C	-	T	Township number.
29	PLS4-RANGE	4	4	C	-	R	Range number.
33	PLS4-SEC	2	2	I	-	S	Section number.
35	PLS4-PM	2	2	I	-	P	Principal Meridian
37	PLS4-LOT	6	6	C	-	L	Survey lot number
43	PLS4-AREA	6	6	N	2	A	Lot acreage
49	SFT4-OWNTYPE	1	1	C	-	SO	Surface Ownership Type
50	SFT4-TRACTNUM	10	10	C	-	ST	Surface Tract Number
60	SFT4-SUFFIX	3	3	C	-	SS	Surface Tract Suffix
63	*SFT4-ANNOFIT	1	1	C	-		Does Surface Tract ID Anno Fit?
64	*SFT4-PARCELID	4	5	B	-		Surface Parcel ID
68	MST4-OWNTYPE	1	1	C	-	MO	Mineral Ownership Type
69	MST4-TRACTNUM	10	10	C	-	MT	Mineral Tract Number
79	MST4-SUFFIX	3	3	C	-	MS	Mineral Tract Suffix
82	*MST4-ANNOFIT	1	1	C	-		Does Mineral Tract ID Anno Fit?

83	*MST4-PARCELID	4	5	B	-		Mineral Parcel ID
87	LST4-WDRL	1	1	I	-		Tract/Parcel within Withdrawal Area
88	LST4-BANDOWN	2	2	C	-	B	Tribal band ownership (optional)
	** Redefined Items **						
49	SFT4-KEY	14	14	C	-		Surface Tract Key Item
68	MST4-KEY	14	14	C	-		Mineral Tract Key Item

Datafile Name: **LST4.AAT**

33	PLS4-TYPE	1	1	C	-	T	Survey Line Type
34	PLS4-CLASS	1	1	C	-	C	Survey Line Class
35	*LST4-SBDRY	2	2	B	-		Surface Boundary Display Class
37	*LST4-MBDRY	2	2	B	-		Minerals Boundary Display Class
39	*LST4-RESBDRY	1	1	I	-		Reservation Boundary Flag
40	*LST4-WDRLBDRY	1	1	I	-		Withdrawal Boundary Flag
41	*SFT4-OMRBDRY	1	1	I	-		Surface OMR Boundary Flag
42	*SFT4-TRACTBDRY	1	1	I	-		Surface Tract Boundary Flag
43	*MST4-OMRBDRY	1	1	I	-		Minerals OMR Boundary Flag
44	*MST4-TRACTBDRY	1	1	I	-		Minerals Tract Boundary Flag
45	*PLS4-TWPBDRY	1	1	I	-		Township Boundary Flag
46	*PLS4-SECT	1	1	I	-		Section Boundary Flag
47	*PLS4-LOT	1	1	I	-		Survey Lot Line Flag
48	*PLS4-CODE	2	2	I	-	CO	PLS4 Arc Display Code

Note: Items preceded by an asterisk are derived automatically by the LTMS system. Therefore they do not need to be captured during a data entry project. However, the algorithms used to derive these items may fail occasionally in special circumstances. The data must be thoroughly checked after this procedure, and some manual updates may be required.

Data Values

PLS4-TOWN	Township number, no leading zeros	
PLS4-RANGE	Range number, no leading zeros	
PLS4-SEC	Section number, values range from 1 thru 36.	
PLS4-PM	Principal meridian numeric code	
PLS4-LOT	Survey adjustment or meander lot - number or designation.	
PLS4-AREA	Listed acreage of the survey adjustment or meander lot.	
SFT4-OWNTYPE and MST4-OWNTYPE	Surface or mineral ownership	
	A	Individual Indian Allotment (in Trust)
	B	BIA Ownership
	E	Tribal in Fee
	F	Fee
	I	Timber Allotments (STROCK)
	M	Multiple Parcels, e.g. townsite or subdivision
	O	Other Government Agency Ownership
	P	Public Domain
	R	Reserved Tribal Trust
	S	BIA Submarginal
	T	Tribal Trust
	U	Unknown

W Water

SFT4-TRACTNUM and MST4TRACTNUM — Surface or mineral tract number
Alpha-numeric attribute that identifies the tract and appears before the dash, if present. Waterbodies have OWNTYPE=W and TRACTNUM=W, even if they carry a name. The same tract number may exist in several polygons.

SFT4-SUFFIX and MST4-SUFFIX — Surface or mineral tract suffix
Alpha-numeric characters following the dash mark (-) in the tract identifier.

SFT4-ANNOFIT and MST4-ANNOFIT — Indicates whether the Tract ID annotation fits within the tract parcel's polygonal boundaries when automatically generated by LTMS software.

<blank>	Fit is not yet calculated
N	Annotation does not fit
Y	Annotation fits, or made to fit by user action

SFT4-PARCELID and MST4-PARCELID — Unique number which identifies the ownership parcel. This value is internal and generated by LTMS software. Integer values begin at 1 and are unique across the entire reservation.

LST4-WDRL — 1 if within Withdrawal Area, 0 if not

LST4-BANDOWN — 2-character abbreviation of the tribal band owning the tract. (optional item)

SFT4-KEY other MST4-KEY files — Concatenation of items SO, ST, SS or MO, MT, MS forming the key relating tract data to

PLS4-TYPE — PLSS survey data source type:

A -	Arbitrary closure (no line exists on map; arbitrary line used to close polygon)
B -	BIA unsurveyed line (no line exists on map; line placed according to BLM protraction survey guidelines)
P -	Protracted line (dashed red line on USGS Quad map)
S -	Surveyed line (solid red line on USGS Quad map)
U -	Unknown (line exists on map; line type unknown)
L -	Survey Lot Line
N -	Line not part of PLSS

PLS4-CLASS — PLSS survey component class of this line.

R -	Range line
S -	Section line
T -	Township line
U -	Unknown line class
N -	Line not part of PLSS
L -	Survey Lot Line
G -	Grant Line
V -	Survey edge

LST4-SBDRY — Represents the boundary to be displayed on surface ownership maps. Takes on the highest boundary type within the surface map display boundary hierarchy that this arc participates in.

1 - Reservation boundary
8 - Withdrawal area boundary
6 - OMR tract group boundary
2 - Surface tract boundary
3 - Township/Range boundary
4 - Section line
5 - PLS lot line
-1 - Non-surface boundary

LST4-MBDRY — Represents the boundary to be displayed on mineral ownership maps. Takes on the highest boundary type within the mineral map display boundary hierarchy that this arc participates in.

1 - Reservation boundary
8 - Withdrawal area boundary
6 - OMR tract group boundary
7 - Mineral tract boundary
3 - Township/Range boundary
4 - Section line
5 - PLS lot line
-1 - Non-mineral boundary

LST4-RESBDRY — 1 if arc is part of a reservation boundary; 0 if not.

LST4-WDRLBDRY — 1 if arc is part of a withdrawal area boundary; 0 if not.

SFT4-OMRBDRY — 1 if arc is part of an Off-Map Referenced tract group

SFT4-TRACTBDRY — 1 if arc is part of a tract boundary (surface or mineral); 0 if not

PLS4-TWPBDRY — 1 if arc is part of a township / range; 0 if not.

PLS4-SECT — 1 if arc is part of a section line; 0 if not.

PLS4-LOT — 1 if arc is part of a survey lot line; 0 if not.

PLS4-CODE Display code (derived from PLS4-TYPE and PLS4-CLASS). Value assigned according to the table below

PLS4-TYPE	PLS4-CLASS	PLS4-CODE
A	T,R,S,V,G,U	0
S	T,R,V	1
S	S	2
S	G,U	3
P	T,R,V	4
P	S	5
P	G,U	6
B	T,R,V	7
B	S	8
B	G,U	9
U	T,R,V	10
U	S	11
U	G,U	12
L	L	13
N	N	14

COMMENTS

Grant boundaries are contained in their own layer (GRT4) and no longer carried in LST4, however there are existing libraries for which grant lines are present.

Variations on layer name as follow:

LST1 -	FTBELN
LST3 -	GRANDP, SKOMSH, WINBAB
LST4NEW -	LWBRUL
LSTA4 -	STHUTE
LSTANNO -	FTBRTH
LSTM3 -	CROWCD, OREILL
LSTMOSS -	FTHALL
LSTNEW -	BLAKFT, CROW
LSTNEW4 -	FTBRTH
LSTOLD4 -	FTBRTH

LSTM4

Land Status, Modified

This layer designation refers to an abbreviated or non-standard version of LST4. All LST4 items are not present and the detailed information required by the LTMS system does not exist.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **LSTM4.PAT**							
25	LTMS4-ATT	n	n	C	-	A	
Datafile Name: **LSTM4.AAT**							
33	LSTM4-CODE	1	1	I	-	CO	display code

Data Values

Comments

Whenever possible, new layers should be created using the LST4 structure described above.

Some standard LST4 PAT items may exist in LSTM4.

MST4

Mineral Land Status

MST4 represents subsurface (mineral) land ownership. It contains subsurface property boundaries representing contiguous ownership tracts.

Source

This theme is derived from LST4, and is acquired through the LST4 automation process.

Item Definitions

Datafile Name: **MST4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	MST4-OWNTYPE	1	1	C	-		Mineral Ownership Type
26	MST4-TRACTNUM	10	10	C	-		Mineral Tract Number
36	MST4-SUFFIX	3	3	C	-		Mineral Tract Suffix
39	*MST4-ANNOFIT	1	1	C	-		Does Mineral Tract ID Anno Fit?
40	MST4-WDRL	1	1	I	-		Tract/Parcel within
41	*MST4-PARCELID	4	5	B	-		Mineral Parcel ID
	** Redefined Item **						
25	MST4-KEY	14	14	C	-		Mineral Tract Key Item

Datafile Name: **MST4.AAT**

33	*MST4-BDRY	2	2	B	-		Minerals Boundary Display Class
35	*MST4-RESBDRY	1	1	I	-		Reservation Boundary Flag
36	*MST4-WDRLBDRY	1	1	I	-		Withdrawal Boundary Flag
37	*MST4-OMRBDRY	1	1	I	-		Minerals OMR Boundary Flag
38	*MST4-TRACTBDRY	1	1	I	-		Minerals Tract Boundary Flag

Data Values

MST4-OWNTYPE

- A Individual Indian Allotment (in Trust)
- B BIA Ownership
- E Tribal in Fee
- F Fee
- M Multiple Parcels, e.g. townsite or subdivision
- O Other Government Agency Ownership
- P Public Domain
- R Reserved Tribal Trust
- B BIA Submarginal
- T Tribal Trust
- U Unknown
- W Water

MST4-TRACTNUM Alpha-numeric attribute that identifies the tract and appears before the dash, if present. Waterbodies have OWNTYPE=W and TRACTNUM=W, even if they carry a name. The same tract number may exist in several polygons.

MST4-SUFFIX Alpha-numeric characters following the dash mark (-) in the tract identifier.

MST4-ANNOFIT Indicates whether the Tract ID annotation fits within the tract parcel's polygonal boundaries, when automatically generated.

<blank> Fit is not yet calculated
N Annotation does not fit
Y Annotation fits, or made to fit by user action

MST4-WDRL Withdrawal Area (flag): 1 if within Withdrawal Area; 0 if not

MST4-PARCELID Unique number which identifies the ownership parcel. This value is internal and generated by LTMS software. Integer values begin at 1 and are unique across the entire reservation.

MST4-KEY Concatenation of the above three items forming the key relating tract data to other files.

MST4-BDRY Represents the boundary to be displayed on plat maps. Takes on the highest boundary type within the map display boundary hierarchy that this arc participates in. Values represent:

1 - Reservation boundary
8 - Withdrawal area boundary
6 - OMR tract group boundary
7 - Mineral tract boundary

MST4-RESBDRY 1 if arc is part of a reservation boundary; 0 if not.

MST4-WDRLBDRY 1 if arc is part of a withdrawal area boundary; 0 if not.

MST4-OMRBDRY 1 if arc is part of an Off-Map Referenced tract group boundary, 0 if not.

MST4-TRACTBDRY 1 if arc is part of a mineral tract boundary; 0 if not.

NGS1

National Geodetic Survey control points

High accuracy locations on a nation-wide network established to provide a common base of reference for latitude, longitude, elevation, scale, orientation, and gravity measurements throughout the United States.

Source

National Geodetic Survey

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **NGS1.PAT**							
25	PID	6	6	C	-		Permanent identifier of the control point
31	AGENCY	6	6	C	-		Name of agency that set up the control point
37	STATN_NAME	30	30	C	-		Station name
67	LAT_DMS	14	14	C	-		Latitude in degrees-minutes-seconds
81	LON_DMS	15	15	C	-		Longitude in degrees-minutes-seconds
96	NORTHING	11	11	C	-		Northing in meters (State Plane)
107	EASTING	11	11	C	-		Easting in meters (State Plane)
118	PCZ	4	4	C	-		Plane Coordinate Zone
122	CONVG	11	11	C	-		Convergence
133	PSF	9	9	C	-		Point Scale Factor
142	ELEVTN	8	8	C	-		Elevation in meters (Orthometric Height)
150	GEOID	6	6	C	-		Geoid Height (meters)
156	POSN_QUAL	1	1	C	-		Position Quality: level of accuracy of position = 1-4 (1 is highest)

Data Values

NIP4

Nambe Irrigation Project

Boundary of the Nambe Irrigation Project.

Source

Item Definitions

Datafile Name: **NIP4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	NIP4-NAME	24	24	C	-	N	

Datafile Name: **NIP4.AAT**

33	NIP4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

NPG4

Nambe Pueblo Grant

Source

USGS 7 1/2' quadrangles.

Item Definitions

Datafile Name: **NPG4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	NPG4-NAME	20	20	C	-	N	

Datafile Name: **NPG4.AAT**

33	NPG4-CODE	1	1	I	-	CO	Display code

Data Values

Nambe Pueblo Grant

Comments

NWI1/2/3/4/7/8

National Wetlands Inventory

This layer consists of data for the National Wetlands Inventory being conducted by the US Fish and Wildlife Service.

Source

Classification of Wetlands and Deepwater Habitats of the United States, Cowardin, et.al., 1979 as modified for National Wetland Inventory Mapping Convention, US Fish and Wildlife Service

Item Definitions

Datafile Name: **NWIn.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	NWIn-SYS	1	1	C	-	SYS	
26	NWIn-SUBSYS	1	1	C	-	SUBSYS	
27	NWIn-CLASS	5	5	C	-	CLASS	
32	NWIn-SUBCLASS	1	1	C	-	SUBCLASS	
33	NWIn-WR	4	4	C	-	WR	
37	NWIn-WC	4	4	C	-	WC	
41	NWIn-SOIL	1	1	C	-	SOIL	
42	NWIn-SPECIAL	3	3	C	-	SPECIAL	

Datafile Name: **NWI7.AAT**

33	NWIn-SYS	1	1	C	-	SYS	
34	NWIn-SUBSYS	1	1	C	-	SUBSYS	
35	NWIn-CLASS	5	5	C	-	CLASS	
40	NWIn-SUBCLASS	1	1	C	-	SUBCLASS	
41	NWIn-WR	4	4	C	-	WR	
45	NWIn-WC	4	4	C	-	WC	
49	NWIn-SOIL	1	1	C	-	SOIL	
50	NWIn-SPECIAL	3	3	C	-	SPECIAL	

Region Subclasses

Datafile Name: **NWI8 REGION.SYSTEM**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	SYSTEM	10	10	C	-	SYS	
35	SUBSYS	20	0	C	-	SS	

Datafile Name: **NWI8 REGION.WETLAND**

25	SYSTEM	10	10	C	-	SYS	
35	SUBSYS	20	20	C	-	SS	
55	CLASS	45	45	C	-	C	

100	SUBCLASS	51	51	C	-	SC
151	WATER	35	35	C	-	W
186	SPECIAL	55	55	C	-	SP

Datafile Name: **NWI8 REGION.CLASS**

25	CLASS	45	45	C	-	C
70	SUBCLASS	51	51	C	-	SC

Datafile Name: **NWI8 REGION.WATER**

25	WATER	35	35	C	-	W

Datafile Name: **NWI8 REGION.SPECIAL**

25	SPECIAL	55	55	C	-	SP

Data Values

NWIn-SYS
E - Estuarine
L - Lacustrine
M - Marine
P - Palustrine
R - Riverine

NWIn-SUBSYS

For SYS = E, M
1 - Subtidal 2 - Intertidal

For SYS = L
1 - Limnetic 2 - Littoral

For SYS = R
1 - Tidal 2 - Lower Perennial 3 - Upper Perennial 4 - Intermittent 5 - Unknown Perennial

For SYS = P n/a

NWIn-CLASS

AB	Aquatic bed
EM	Emergent
FO	Forested
ML	Moss lichen
OW	Open water
RB	Rock bottom

RF	Reef
RS	Rocky shore
SB	Stream bed
SS	Scrub shrub
UB	Unconsolidated bottom
US	Unconsolidated shore

NWIn-SUBCLASS

For CLASS = AB
- 1 - Algal
- 2 - Aquatic moss
- 3 - Rooted vascular
- 4 - Floating vascular
- 5 - Unknown sudmergent
- 6 - Uknown surface

For CLASS - EM
- 1 - Persistent
- 2 - Nonpersistent

For CLASS = FO
- 1 - Broad-leaved deciduous
- 2 - Needle-leaved deciduous
- 3 - Broad-leaved evergreen
- 4 - Needle-leaved evergreen
- 5 - Dead
- 6 - Deciduous
- 7 - Evergreen

For CLASS = ML
- 1 - Moss
- 2 - Lichen

For CLASS = OW
- no subclasses

For CLASS = RB
- 1 - Bedrock
- 2 - Rubble

For CLASS = RF
- 1 - Coral
- 2 - Mollusic
- 3 - Worm

For CLASS = RS
- 1 - Bedrock
- 2 - Rubble

For CLASS = SB and SYS = E
- 1 - Cobble gravel
- 2 - Sand
- 3 - Mud
- 4 - Organic

For CLASS = SB and SYS = R
- 1 - Bedrock
- 2 - Rubble

3 - Cobble gravel
4 - Sand
5 - Mud
6 - Organic
7 - Vegetated

For CLASS = SS
- 1 - Broad-leaved deciduous
- 2 - Needle-leaved deciduous
- 3 - Broad-leaved evergreen
- 4 - Needle-leaved evergreen
- 5 - Dead
- 6 - Deciduous
- 7 - Evergreen

For CLASS = UB
- 1 - Cobble ggravel
- 2 - Sand
- 3 - Mud
- 4 - Organic

For CLASS = US
- 1 - Cobble ggravel
- 2 - Sand
- 3 - Mud
- 4 - Organic
- 5 - Vegetated

NWIn-WR

For Non-Tidal
- A - Temporarily flooded
- B - Saturated
- C - Seasonally flooded
- D - Seasonally flooded/well drained
- E - Seasonally flooded/saturated
- F - Semipermanently flooded
- G - Intermittently flooded
- H - Permanently flooded
- J - Intermittently flooded
- K - Artificially flooded
- W - Intermittently flooded/temporary
- Y - Saturated/semipermanent/seasonal
- Z - Intermittently exposed/permanent
- U - Unknown

For Tidal
- K - Artificially flooded
- L - Subtidal
- M - Irregularly exposed
- R - Regularly exposed
- P - Irregularly flooded
- S - Temporary tidal
- R - Seasonal tidal
- T - Semipermanent tidal
- V - Permanent tidal
- U - Unknown

NWIn-WC

1 - Hpyerhaline
2 - Euhaline
3 - Mixohaline (brackish)
4 - Polyhaline
5 - Mesohaline
6 - Oligohaline
7 - Hypersaline
8 - Eusaline
9 - Mixosaline
0 - Fresh

NWIn-SOIL

g - Organic
n - Mineral

NWIn-SPECIAL

b - Beaver
d - Partially drained/ditched
f - Farmed
h - Diked/impounded
r - Artificial substrate
s - Spoil
x - Excavated

Comments

NXW4

Noxious Weeds

Areas of undesirable plant types targeted for control efforts by range management programs.

Source

Manuscripts prepared by range management specialists from aerial photographs or range inspection.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **NXW4.PAT**							
25	NXW4-TYPE	2	2	C	-	T	
	The following optional items are used by CROW:						
27	NXW4-CLASS	2	2	C	-	C	
29	NXW4-AMT1	2	2	C	-		
31	NXW4-AMT2	2	2	C	-		
33	NXW4-CHEM1	3	3	C	-		
36	NXW4-CHEM2	3	3	C	-		
39	NXW4-APPL	2	2	C	-		
41	NXW4-SEASON	2	2	C	-		
43	NXW4-MONTH	4	4	I	-		
47	NXW4-YEAR	2	2	I	-		
	** Redefined Items **						
29	QUANTITY1	1	1	I	-		
30	UNITS1	1	1	C	-		
31	QUANTITY2	1	1	I	-		
32	UNITS2	1	1	C	-		
Datafile Name: **NXW4.AAT**							
33	NXW4-CODE	1	1	I	-		Display code

Data Values

NXW4-TYPE	DT:	Dalmatian Toadflax
	LS:	Leafy Spurge
	SK:	Spotted Knapweed
	RK:	Russian Knapweed
NXW4-CLASS	SS:	Spot Spraying
	BR:	Bio-Release
	TB:	Tordon Beads
	IR:	Insect Release
	DL:	Defoliating Larva

QUANTITY1 Quantity of chemical #1 used
UNITS1 Units of chemical #1:
Q: Quart
P: Pint
NXW4-AMT1 Concatenation of QUANTITY1 and UNITS1 (e.g. "1Q")
QUANTITY2 Quantity of chemical #2 used
UNITS2 Units of chemical #2:
Q: Quart
P: Pint
NXW4-AMT2 Concatenation of QUANTITY2 and UNITS2 (e.g. "2P")
NXW4-CHEM1 Name of chemical #1
NXW4-CHEM2 Name of chemical #2
NXW4-APPL Type of application:
GA: Ground application
HS: Hand Spray
AS: Aerial Spray
NXW4-SEASON Season:
SP: Spring
S: Summer
F: Fall
NXW4-MONTH Month (e.g. "JUNE")
NXW4-YEAR Year (e.g. "92")

Comments

Variations on the layer name may exist that denote the year the survey was performed, e.g.NXW88, NXW91.

Other Agency Management

OAM4 identifies land management responsibility for agencies other than BIA or Tribes. Examples include: US Forest Service, US Bureau of Land Management, and Colorado Division of Wildlife.

Source

USGS 7 1/2' quads

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **OAM4.PAT**							
25	OAM4-CLASS	4	4	C	-	C	Feature class
29	OAM4-TYPE	3	3	C	-	T	Feature type
32	OAM4-NAME	30	30	C	-	N	Agency name
62	OAM4-AGENCY	30	30	C	-	AG	Name of agency with management responsibility.
Datafile Name: **OAM4.AAT**							
33	OAM4-CODE	1	1	I	-	CO	1 - Agency line 0 - Arbitrary closure line

Data Values

OAM4-CLASS

AFS	Air Force Station
CGS	Coast Guard Station
COR	Correctional Center
CP	County Park
CTY	City
ITB	Indian Treaty Boundary ?????
MIL	Military Reservation
NBR	National Bison Range
NF	National Forest
NGL	National Grass Lands
NM	National Monument
NP	National Park
NRA	National Recreation Area
NSH	National Salmon Hatchery
NSR	National Scenic Riverway
NWMA	National Wildlife Management Area

NWPA National Waterfowl Production Area
NWR National Wildlife Refuge
PHG Public Hunting Grounds
SF State Forest
SFA State Fishery Area
SGMA State Game Management Area
SGP State Game Preserve
SGPA State Game Production Area
SGR State Game Refuge
SNA State Natural Area
SP State Park
SPHA State Public Hunting Area
SPSA State Public Shooting Area
SRA State Recreation Area
SRF State Reformatory Farm
SWMA State Wildlife Management Area
SWR State Wildlife Refuge

OAM4-TYPE
US United States Agency
STA State Agency
CTY County Agency
INC City, incorporated area
UNC Unincorporated area

Comments

For -NAME do not include the class designation, ex: 'YELLOWSTONE', not 'YELLOWSTONE NP'

For adjacent reservations, do not include the adjacent reservation boundary in OAM4; it should appear in RBD4 along with the subject reservation boundary.

OGS1

Oil and Gas Sites

Locations of interest to energy exploration and production programs.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **OGS1.PAT**							
25	OGS1-CLASS	3	3	C	-		C
28	OGS1-TYPE	3	3	C	-		T
31	OGS1-NAME	30	30	C	-		NName (if any) of the OGS site.

Data Values

OGS1-CLASS	TNK:	Tank
	WEL:	Well
OGS1-TYPE	TST:	Test
	OIL:	Oil
	GAS:	Gas

PAL4

Paleontological Reources

Source

Defined from aerial photography or satellite imagery.

Item Definitions

Datafile Name: **PAL4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	PAL4-ATT	3	3	C	-	A	

Datafile Name: **PAL4.AAT**

33	PAL4-CODE	1	1	I	-	CO	Display code

Data Values

PAL4-ATT

PC, PM, TNM, TSM

Comments

PBD4

Partition Land Boundary

Source

USGS 7 1/2' quadrangles.

Item Definitions

Datafile Name: **PBD4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	PBD4-NAME	30	30	C	-	N	

Datafile Name: **PBD4.AAT**

33	PBD4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

PCT4

Pre-Commercial Thinning

Areas targeted for management practices.

Source

Manuscripts produced from field inspecton.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **PCT4.PAT**							
25	PCT4-BLOCK	2	2	C	-	B	
25	" "	13	13	C	-	B	(ACOMA, ISLETA, JEMEZ) Block designation. Use PCT-BLOCK (JICARI) or PCT-ATT (ACOMA, ISLETA, JEMEZ). Information not available from some ATTRIBUTE items.
27	PCT4-LOCATION	n	n	C	-	L	Geographical description of the block. Use PCT-LOCATION (JICARI), or extract it from ATTRIBUTE when available.
	PCT4-DATE	4	4	I	-	D	Year of thinning. Use PCT-DATE or extract it from ATTRIBUTE. Add 1900 if needed.
Datafile Name: **PCT4.AAT**							
33	PCT4-CODE	1	1	I	-	CO	Display code

PDT4

Prairie Dog Towns

The perimeter of prairie dog towns are represented here.

Source

Aerial photography or satellite imagery.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **PDT4.PAT**							
25	PDT4-						
Datafile Name: **PDT4.AAT**							
33	PDT4-CODE	1	1	I	-	CO	Display code

Comments

Variations on and distribution of layer names as follows:

PDT3 -	PINERG
PDT4 -	UINORY
PDT89 -	FTBELN
PDT894 -	NCHEYE
PDT90 -	FTBELN
PDT904 -	NCHEYE
PDT92 -	ROSEBD
PDT944 -	FTBELN, NCHEYE
PDT954 -	NCHEYE
PDTA3 -	PINERG
PDTAX3 -	PINERG
PDTO -	FTBELN

PEA4

Peabody Coal Lease

Boundary of the Peabody Coal Company leased lands within the Hopi Reservation.

Source

Item Definitions

Datafile Name: **PEA4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	PEA4-NAME	30	30	C	-	N	Peabody Coal

Datafile Name: **PEA4.AAT**

33	PEA4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

PIL4

Potentially Irrigable Land

Source

Defined from aerial photography or satellite imagery.

Item Definitions

Datafile Name: **PIL4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	PIL4-ATT	10	10	C	-		

Datafile Name: **PIL4.AAT**

33	PIL4-CODE	1	1	I	-	CO	Display code

Data Values

PIL4-ATT

NAMBE, NON-INDIAN, PIL

Comments

PLS4

Public Land Survey System

Township, range and section grid.

Source

This layer is one of the base theme coverages. It is captured from USGS 7.5' quads for almost all reservations. There are some reservations which obtained PLS data from 1:100k digital line graph files from USGS.

This layer may be captured separately (e.g. directly from quads), or it may have been derived from the LST4 layer used by the LTMS application. See the description of LST4.

The items preceded by a '*' are included ONLY in PLS layers derived from LST data, and are not part of the original attributing scheme. This information does not appear on the sources used to capture the PLS.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Contents
Datafile Name: **PLS4.PAT**							
25	PLS4-TOWN	4	4	C	-	T	Township number (in case of ½townships 6,6,C)
29	PLS4-RANGE	4	4	C	-	R	Range number (in case of ½ranges 6,6,C)
33	PLS4-SEC	2	2	I	-	S	Section number
35	PLS4-PM	2	2	I	-	P	Prime meridian
37	*PLS4-LOT	6	6	C	-	L	Number or designation of survey adjustment or meander lot
43	*PLS4-AREA	6	6	N	2	A	Listed acreage of survey adjustment or meander lot
	In case of half-townships:						
25	PLS4-TOWN	6	6	C	-	T	
31	PLS4-RANGE	6	6	C	-	R	
	In case of half-sections:						
33	PLS4-SEC	4	4	N	1	S	e.g. '28 0' or '12 5'
	This item is split into two redefined items:						
33	SEC	2	2	I			Integer section number
36	HALF	1	1	I	-		0 (whole section) or 5 (half-section)
Datafile Name: **PLS4.AAT**							
33	PLS4-TYPE	1	1	C	-	T	Survey Line Type
34	PLS4-CLASS	1	1	C	-	C	Survey Line Class
35	*PLS4-BDRY	2	2	B	-		Boundary to be displayed on plat maps.
37	*PLS4-TWPBDRY	1	1	I	-		Township boundary flag.
38	*PLS4-SECT	1	1	I	-		Section line flag
39	*PLS4-LOT	1	1	I	-		Lot line flag.
40	PLS4-CODE	2	2	I	-	CO	Display Code

Data Values

PLS4-TYPE

- A - Arbitrary closure (no line exists on map; arbitrary line used to close polygon)
- B - BIA unsurveyed line (no line exists on map; line placed according to BLM protraction survey guidelines)
- P - Protracted line (dashed red line on USGS Quad map)
- S - Surveyed line (solid red line on USGS Quad map)
- U - Unknown (line exists on map; line type unknown)
- L - Survey Lot Line
- N - Not part of PLSS

PLS4-CLASS

- R - Range line
- S - Section line
- T - Township line
- U - Unknown line class
- L - Survey Lot Line
- G - Grant Line (no longer used as of 8-30-96)
- V - Survey edge
- N - Not part of PLSS

PLS4-BDRY

Takes on the highest boundary type within the map display boundary hierarchy that this arc participates in:

- 3 - Township/range boundary
- 4 - Section line
- 5 - PLS lot line

PLS4-TWPBDRY

- 0 - Arc is not part of a township/range boundary
- 1 - Arc is part of a township/range boundary

PLS4-SEC

- 0 - Arc is not part of a section line
- 1 - Arc is part of a section line

PLS4-LOT

- 0 - Arc is not part of a survey lot line
- 1 - Arc is part of a survey lot line

PLS4-CODE

Display code is derived from PLS4-TYPE and PLS4-CLASS. Values assigned according to the table below.

PLS4-TYPE	PLS4-CLASS	PLS4-CODE
A	T,R,S,V,G,U	0
S	T,R,V	1
S	S	2
S	G,U	3
P	T,R,V	4
P	S	5
P	G,U	6
B	T,R,V	7
B	S	8

B	G,U	9
U	T,R,V	10
U	S	11
U	G,U	12
L	L	13
N	N	14

Comments

- Capture full sections when split by Reservation Boundary or other features.
- For libraries being modified, AAT items PLS4-TYPE will first be set to 'U' (unknown) until the arcs can be identified from the quads, and assigned the proper type. Item PLS4-CLASS will be derived automatically by MODPLS.AML.
- Section and township lines will be assumed to be surveyed (PLS4-TYPE) if they are "hidden" by boundaries or roads.
- For 'WATER' polygons, attribute the PLS4-TOWN and PLS4-RANGE with 'H2O'. This applies only to large unsurveyed bodies of water over which there are no PLS lines on the quad.
- For grant lines, code -TYPE as 'S' and -CLASS as 'T', 'R', or 'S' as appropriate.
- For incomplete surveys, populate items PLS4-TOWN, -RANGE, and -PM with the appropriate values. Code -SEC = 0.
- Remove leading zeroes from township and range.
- Variations on layer name:

PLS1 -	MAKOZ
PLS2 -	NAVWES
PLS4-O -	FTTOTN
PLSA -	POJAQE, SILDEF
PLSMOSS -	FTHALL
PLSNEW4 -	FTBRTH
PLX -	NAV100

PPM4

Post and Pole Management

Forestry theme for timber areas managed specifically to produce trees suitable for harvest and processing as posts or poles.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **PPM4.PAT**							
25	PPM4-NAME	n	n	C	-	N	Name of management area
Datafile Name: **PPM4.AAT**							
33	PPM4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

PST4

Pastures

Range management theme of grazing area supporting livestock.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **PST4.PAT**							
25	PST4-ANUM	n	n	C	-	A	Identifying number
Datafile Name: **PST4.AAT**							
33	PST4-CODE	1	1	I	-	CO	Display code

The PST layer subdivides the RUN layer. Consider unioning both and adding PST4-ANUM to the RUN4 items. Sometimes the RUN number is contained in the PST ATTRIBUTE.

Data Values

PTC1

Photo Centers

Locations of the centers of individual frames of photographs acquired along air photo flight lines.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **PTC1.PAT**							
25	PTC1-ATT	n	n	C	-		A

Data Values

Comments

Rename ATTRIBUTE or PTC-NUM (KALISP).

Possible -TYPE and -YEAR items; need more info on meaning of ATTRIBUTE.

QUAD3

USGS 7 1/2' Quadrangles

QUAD3 represents the USGS 7.5' quadrangle coverage. The quads represent the tile structure of a reservations map library index, as well as provide information pertaining to the source of data entry of base themes.

Source

U.S. Geological Survey

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **QUAD3.PAT**							
25	TILE-NAME	6	6	C	-	T	Quadrangle abbreviation
31	QUAD3-NAME	30	30	C	-	N	Quadrangle name
61	ROWCOL	4	4	C	-	RC	Row-column index for large projects
65	QUADYR	2	2	I	-	Y	Year of quad publication
67	REV/INSP	2	2	I	-	R	Year of quad revision or inspection
69	MAPTYPE	2	2	C	-	MT	Type of map
71	QUADSCALE	7	7	C	-	S	Scale
78	USGSREF	8	8	C	-	U	USGS Index number
86	SE-LATLON	14	14	C	-	SE	Southeast corner of quad
100	CONTOURINT	3	3	I	-	CI	Contour interval
103	H-DATUMYR	2	2	I	-	DAT	Year of NAD
105	COMMENT	75	75	C	-	CO	

Data Values

Taken from quad sheet or USGS map indices.

Comments

Because the QUAD layer coincides with the tile lines there is no need to build it as a network coverage.

RBD4

Reservation Boundary

The boundary of the Indian Reservation. Also includes population and organizational data.

Source

Boundary - Typically USGS 7 1/2' quadrangles although other sources may be used.
Population - US Bureau of the Census Decennial Report or US Department of Commerce *American Indian Reservations and Trust Areas*
Tribal enrollment - US Department of Commerce *American Indian Reservations and Trust Areas*

Item Definitions

Datafile Name: **RBD4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	RBD4-NAME	30	30	C	-	N	Reservation name
55	RBD4-RESCODE	3	3	I	-	RC	Reservation FIPS code
58	RBD4-STNAME	10	10	C	-	SN	State within which majority of Reservation lies
68	RBD4-STFIPS	2	2	I	-	SF	State FIPS code
70	RBD4-STNAME2	10	10	C	-	SN2	Second state (if any) name
80	RBD4-STFIPS2	2	2	I	-	SF2	Second state (if any) FIPS code
82	RBD4-CTYNAME	30	30	C	-	CN	County name
112	RBD4-CTYFIPS	3	3	I	-	CF	County FIPS code
115	RBD4-CTYNAME2	30	30	C	-	CN2	Second county (if any) name
145	RBD4-CTYFIPS2	3	3	I	-	CF2	Second county (if any) FIPS code
148	RBD4-BIAAREA	12	12	C	-	AR	BIA organizational area office
160	RBD4-BIAAGCY	25	25	C	-	AG	BIA agency office
185	RBD4-AACODE	3	3	C	-	AA	FIPS code for BIA agency office
188	RBD4-TRIBNAME	50	50	C	-	TN	Name of tribe(s) on the reservation
238	RBD4-TRIBCODE	3	3	I	-	TC	FIPS code of above
241	RBD4-ENROLL	6	6	I	-	EN	Tribal enrollment
247	RBD4-RESPOP80	6	6	I	-	P80	1980 reservation population
253	RBD4-RESPOP90	6	6	I	-	P90	1990 reservation population
	**Redefined Items **						
185	AREACODE	1	1	C	-		
186	AGCYCODE	2	2	I	-		

Datafile Name: **RBD4.AAT**

RBD4-CODE		1	1	I	-	CO	Display code

Data Values

FIPS values are from Federal Information Processing Standards.

Comments

Although many steps are taken to keep this layer current with the official designation, it should not be considered "gospel" as it is not a legal version of the reservation boundary only a good-faith attempt to depict it graphically. Changes to this layer are not made by the service center unless directed by the field in writing.

RBD4-NAME is '<resvname> IR'
Any holes (islands) in the RBD are attributed '-9999'

RCO4

Range Condition

Source

Item Definitions

Datafile Name: **RCO4.PAT**

Col	Item Name	Width	Output		Type	# Dec	Alt Name	Content
25	RCO4-ATT	n	n	C	-	N		

Datafile Name: **RCO4.AAT**

33	RCO4-CODE	1	1	I	-	CO	Display code	

Data Values

Comments

RCO4 is found in Hopi and Nambe libraries.

RDS2

Roads

Vehicular and pedestrian routes.

Source

Roads data are collected from USGS 7.5' quad maps. There are some libraries which now contain data collected from global positioning systems, analysis of remotely sensed images and interpretation of aerial photographs.

Item Definitions

Datafile Name: **RDS2.AAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
33	RDS2-TYPE	3	3	C	-	T	Feature category
36	RDS2-NAME	30	30	C	-	N	Name of the feature
66	RDS2-QUAL	3	3	C	-	Q	Additional identifying characteristics
69	RDS2-SOURCE		4	4	C	-	S Source of data

Data Values

RDS2-TYPE

- IMP: Improved
- LDR: Light-Duty Road
- PHS: Primary Hard

SHS:Secondary Hard Surface
TRL: Trail
UIR: Unimproved Road

RDS2-QUAL (* = from USGS DLG datasets)
4LN: 4 lane highway*
4WD: Jeep or 4WD
BR: Drawbridge*
BRD: Bridge
BRP: Boat ramp
CLV: Cloverleaf*
CUL: Cul de Sac*
DAM: Road section over a dam
FRD: Ford
FRY: Ferry

FT: Foot
FTB:Footbridge*
OLK:Scenic Overlook
OVP: Overpass*
PCK:Pack
RMP:Ramp
RST:Rest Area
TUN:Tunnel
UND:Underpass*

RDS2-SOURCE
GPS, NHAP

Comments

- Use standard abbreviations if longer than 30 characters.
- The name may be an official road designation, such as 'US66', or a description such as 'LOGGING ROAD', 'PRIVATE ROAD', etc...
- No spaces are allowed between interstate, US highway, or state highway designators and numbers i.e. 'US40' not 'US 40'.
- In the case of shared road names, list in decreasing order of administration; example: I80/US89/SH282/CR1045.
- In the case of shared road names with the same level of administration, list in numerical order and separate with slashes, e.g. SH16/SH18
- RDS2-QUAL is used only to identify the specific road features listed above. It is left blank for the regular parts of the road. If the feature has a name, the name may be incorporated into RDS2-NAME, ex.: 'I70/EISENHOWER TUNNEL'. In most cases, RDS2-TYPE will be the same as for the main road to which the feature belongs.
- Abandoned railroad grades where the track has been removed (no track symbol on the map) belong to the RDS2 layer and are named "OLD RR GRADE".
- Variations on layer name:

  RDS001 - MENOME
  RDS2_100K - PYRAMD
  RDS2M - NARRAG
  RDS89 - UTEMTN
  RDSA - POJAQE, SILDEF, TESUQE
  RDSA2 - NCHEYE
  RDSCLP - SANCAR
  RDSDLG2 - ONEIDA
  RDSMOSS - COLVIL
  RDSNEW - CROW
  RDSOLD - SANCAR

RRS2

Railroads

This dataset contains railroad lines as depicted on 7.5' Usgs quads.

Source

USGS 7 1/2' quadrangles.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **RRS2.PAT**							
33	RRS2-TYPE	3	3	C	-	T	Feature category
36	RRS2-NAME	30	30	C	-	N	Feature name
66	RRS2-QUAL	3	3	C	-	Q	Additional feature description
69	RRS2-SOURCE		8	8	C	-	S Source of the data

Data Values

RRS2-TYPE

ACT: active ABD: abandoned (still shown as R.R. on map)

RRS2-NAME

Usually the Railroad Company's name. Acronyms are permitted.

RRS2-QUAL * = from USGS DLG datasets)

SGL - single track	UND* - underpass
DBL - double track	DRG* - drawbridge
SDG - siding	BRD* - bridge
NG - narrow gauge	OVP* - overpass
TNL - tunnel	YRD* - yard

Comment

Because of the large number of abandoned railroads or company name changes in the last 20 years, values for these two items should be reviewed.
Data for this layer may also be found in current layers RDS and TRN.

RSC4

Range Soil Condition

Source

Item Definitions

Datafile Name: **RSC4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	RSC4-ATT	n	n	C	-	N	

Datafile Name: **RSC4.AAT**

33	RSC4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

RSI4

Range Site Index

This layer contains vegetation, stocking rate, water source/structure and soils data. It is very useful to those interested in the current condition and possible development potential for a specific rangeland unit.

Source

National Resource Conservation Service

Item Definitions

SANCAR structure:

Datafile Name: **RSI4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	RU	2	2	I	-		Range Unit
27	MLRA	5	5	C	-		Major Land Resource Area
32	RS	20	20	C	-		Range Site (subset of MLRA)
52	RSN1	3	3	I	-		Subset of RS
55	RSN2	3	3	I	-		Subset of RS
58	RSN3	3	3	I	-		Subset of RS
61	RSN1P	3	3	N	2		Percent of the RS poly in RSN1
64	RSN2P	3	3	N	2		Percent of the RS poly in RSN2
67	RSN3P	3	3	N	2		Percent of the RS poly in RSN3
70	COND	1	1	C	-		Range condition
71	SR1	5	5	N	3		Stocking rate for RSN1
76	SR2	5	5	N	3		Stocking rate for RSN2
81	SR3	5	5	N	3		Stocking rate for RSN3
86	SRT	6	6	N	3		Stocking rate total
92	ACRES	9	9	N	2		
101	PSR	7	7	N	1		Sum of SRT for all range sites within a pasture

HOPI structure

Datafile Name: **RSI4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	RSI4-ATT	30	30	C	-		
55	RSI4-RNG_SOIL_GP	5	5	C	-		
60	RSI4-CLIM_ZONE	1	1	C	-		
61	RSI4-CANOPY_CL	2	2	C	-		
63	RSI4-COND_CL	2	2	C	-		
65	RSI4-STK_R_SYM	4	4	C	-		
69	RSI4-WRITEUP	4	4	C	-		
73	RSI4-PRFIL_MOD	1	1	C	-		
74	RSI4-PRFIL	4	4	C	-		

78	RSI4-OTHER_FACT	3	3	C	-
81	RSI4-PARENT	3	3	C	-
84	RSI4-SLOPE_CL	4	4	C	-
88	RSI4-EROSION_CL	1	1	C	-

Datafile Name: **RSI4.AAT**

33	RSI4-CODE	1	1	I	-	CO	Display code

Comments

Keep existing structures for CROW, HOPI, JICARI, UMATIL.
Variations on layer name:

RSI4DEW -	CHEYRV
RSI4ZIEB -	CHEYRV

Range Soils

Source

Item Definitions

Datafile Name: **RSL4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content	
25	RSL4-ATT	n	n	C	-		N	

Datafile Name: **RSL4.AAT**

33	RSL4-CODE	1	1	I	-		CO	Display code

Data Values

Comments

RSP4

Range Site Production

Source

Defined from aerial photography.

Item Definitions

Datafile Name: **RSP4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	RSP4-ATT	8	8	C	-		

Datafile Name: **RSP4.AAT**

33	RSP4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

RUN4

Range Units

Range units define range management areas. These areas typically contain several RSI polygons.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **RUN4.PAT**							
25	RUN4-ANUM	5	5	C	-	A	Range unit number (alphanumeric.)
30	RUN4-NAME	30	30	C	-	N	Range unit name
60	RUN4-PASNAME	n	n	C	-	P	Pasture name or number

- ATTRIBUTE usually contains a 'number' (maybe alphanumeric.), a 'name', or both (usually separated by '_'). The 'name' may be a geographical designation ('HELLSCANYON') or a type such as 'NON-INDIAN' or 'BUFFALOPASTURE'. The 'name' will go into RUN4-NAME and the 'number' into RUN4-ANUM. Indicators such as 'ALLOT.', 'R.U.', 'RU-' and 'RU' will be removed; leading zeroes on RU numbers will be removed. Items such as <res. name> or other 'OUT' islands will be replaced by '-9999'

- Existing items RUN-NAME, RUN-NUM, PAS-NAME will go into RUN4-NAME, RUN4-ANUM and RUN4-PASNAME.

- Item RUN-ATT will normally go into RUN4-ANUM; in a few obvious cases it will go into RUN4-NAME.

- Item RUN-TYPE (only present in WINDRV) will go into RUN4-NAME.

Datafile Name: **RUN4.AAT**							
33	RUN4-CODE	1	1	I	-	CO	Display code

Comments

Special case:

SANCAR currently has two network layers, RUN2 and RUN3. They have identical structures, which do not fit the structure proposed above.

RUN2 has no attribute data and may be deleted.
RUN3 will be renamed RUN4 but not restructured.

Variations on layer name:

RUN834 - PINERG

RUT4

Range Utilization

Source

Defined from aerial photography or satellite imagery.

Item Definitions

Datafile Name: **RUT4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	RUT4-ATT	8	8	C	-		

Datafile Name: **RUT4.AAT**

33	RUT4-CODE	1	1	I	-	CO	Display code

Data Values

RUT4-ATT

SLIGHT, LIGHT, MODERATE, HEAVY, NON-UTIL

Comments

RWA1/2

Range Water

Locations of water sources for livestock.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **RWAn.PAT**							
25	RWAn-ATT	n	n	C	-	A	

Data Values

Comments

- With further research into data types, RWA1-ATT could be broken down into RWA1-TYPE and RWA1-NAME items, with types such as 'WELL', 'RWP', 'ECW', 'NCRP' etc...

- Some of the data (particularly in JICARI) overlaps with SPT data (RWA1) or TRN data, pipeline class (RWA2).

- Consider merging with SPT1 layer.

SAB4

Study Area Boundary

SAB4 was created to provide a spatial framework for an area of interest.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SAB4.PAT**							
25	SAB4-NAME	30	30	C	-	N	
Datafile Name: **SAB4.AAT**							
33	SAB4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

Rename ATTRIBUTE; remove 'IR' or 'SAB'. For TORESM the layer contains all polygons inside the reservation; consider keeping only the outside boundary.

SBD4

State Boundary

State boundaries

Source

USGS 7 1/2' quadrangles.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SBD4.PAT**							
25	SBD4-NAME	15	15	C	-	N	State name
40	SBD4-FIPS	2	2	I	-	F	State FIPS code
Datafile Name: **SBD4.AAT**							
33	SBD4-CODE	1	1	I	-	CO	Display code

Data Values

SBD4-NAME
: Name of the state

SBD4-FIPS
: Federal Information Processing Standard two integer state code.

Comments

SBI4

Spruce Budworm Infestation

Timber areas identified as being under attack by insects. These areas can then be targeted for insect control programs.

Source

Aerial photographs

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SBI.PAT** (NPAFIR)							
25	SBI4-ATT	12	12	C	-		
Datafile Name: **SBI.PAT** (WARMSP)							
25	ATTRIBUTE	30	30	C	-		
Suggested Datafile Alternative (needs verification from WARMSP):							
25	SBI4-CODE	2	2	I	-		
27	SBI4-TYPE	3	3	C	-		
Datafile Name: **SBI4.AAT**							
33	SBI4-CODE	1	1	I	-	CO	Display code

Data Values

SBI-ATT

'NON-INFECTED', 'LIGHT', 'MEDIUM', and 'HEAVY'.

ATTRIBUTE

NBS-0, 1, 2 SBS-0, 1, 2, 3

Comments

SCD4

School Districts

Boundaries of tribal school districts.

Source

User defined manuscripts.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SCD4.PAT**							
25	SCD4-NAME	12	12	C	-	N	School district name
Datafile Name: **SCD4.AAT**							
33	SCD4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

SCT4

Surface Cover Type

SCT4 representing vegetation polygons. Typically forestry oriented.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SCT4.PAT**							
25	SCT4-COMP	3	3	C	-	C	Compartment number,
28	SCT4-STAND	3	3	C	-	S	Stand number
	** Redefined Items **						
25	SCT4-CS	6	6	C	-		Concatenation of SCT4-COMP and SCT4-STAND. Will make reselecting on both numbers easier.
Datafile Name: **SCT4.AAT**							
33	SCT4-CODE	1	1	I	-	CO	Display code

Data Values

SCT4-COMP a 3-digit number W water

SCT4-STAND
- blank or '000' (if no stand number)
- a 3-digit number
- 'PVT' (private land)
- 'W'(water)
- 'Uxx' where 'xx' is a 2-digit number, for a few cases where the 'stand' part of ATTRIBUTE is 'UNKNOWNxx' (happens only in WEARTH).

Comments

When ATTRIBUTE is 'WATER', use 'W' for both items.

For private lands, set SCT4-STAND to 'PVT' but set SCT4-COMP to the number of the compartment in which the private land is located.

Exceptions:

ATTRIBUTE in NAMBE does not follow the above structure and will simply be renamed SCT4-ATT 6,6,C.

LOSCOY, SYSABL, NPAFIR, SPOKAN, TURTLM, MENOME each have their own structure and will be rebuilt as network coverages SCT4 but not modified. NPAFIR data looks like it belongs to another layer (TTY?).

SFT4

Surface Tracts

This layer contains polygons representing surface land ownership tracts.

SFT4 represents surface land ownership. It contains surface property boundaries representing contiguous ownership tracts. This theme is derived from LST4, and is acquired through the LST4 automation process.

Source

Derived from the base integrated data layer, named LST4. See also the description of LST4

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SFT4.PAT**							
25	SFT4-OWNTYPE	1	1	C	-	SO	Surface Ownership Type
26	SFT4-TRACTNUM	10	10	C	-	ST	Surface Tract Number
36	SFT4-SUFFIX	3	3	C	-	SS	Surface Tract Suffix
39	*SFT4-ANNOFIT	1	1	C	-		Does Surface Tract ID Anno Fit?
40	SFT4-WDRL	1	1	I	-		Tract/Parcel within Withdrawal Area (flag):
41	*SFT4-PARCELID	4	5	B	-		Surface Parcel ID
	** Redefined Items **						
25	SFT4-KEY	14	14	C	-		Surface Tract Key Item
Datafile Name: **SFT4.AAT**							
*SFT4-BDRY		2	2	B	-		Surface Boundary Display Class
*SFT4-RESBDRY		1	1	I	-		Reservation Boundary Flag
*SFT4-WDRLBDRY		1	1	I	-		Withdrawal Boundary Flag
*SFT4-OMRBDRY		1	1	I	-		Surface OMR Boundary Flag
*SFT4-TRACTBDRY		1	1	I	-		Surface Tract Boundary Flag

Data Values**Data Values****Data Values**

Data Values

SFT4-OWNTYPE

A	Individual Indian Allotment (in Trust)
B	BIA Ownership
E	Tribal in Fee
F	Fee
M	Multiple Parcels, e.g. townsite or subdivision
O	Other Government Agency Ownership
P	Public Domain
R	Reserved Tribal Trust
S	BIA Submarginal
T	Tribal Trust

	U	Unknown
	W	Water

SFT4-TRACTNUM

Alpha-numeric attribute that identifies the tract and appears before the dash, if present. Waterbodies have OWNTYPE=W and TRACTNUM=W, even if they carry a name. The same tract number may exist in several polygons.

SFT4-SUFFIX

Alpha-numeric characters following the dash mark (-) in the tract identifier.

SFT4-ANNOFIT — Indicates whether the Tract ID annotation fits within the tract parcel's polygonal boundaries, when automatically generated.

<blank>	Fit is not yet calculated
N	Annotation does not fit
Y	Annotation fits, or made to fit by user action

SFT4-WDRL — 1 if within Withdrawal Area
0 if not

SFT4-PARCELID — Unique number which identifies the ownership parcel. This value is internal and generated by LTMS software. Integer values begin at 1 and are unique across the entire reservation.

SFT4-KEY — Concatenation of the first three items forming the key relating tract data to other files.

SFT4-BDRY

Represents the boundary to be displayed on plat maps. Takes on the highest boundary type within the map display boundary hierarchy that this arc participates in.

1 -	Reservation boundary
8 -	Withdrawal area boundary
6 -	OMR tract group boundary
2 -	Surface tract boundary

SFT4-RESBDRY

1 if arc is part of a reservation boundary; 0 if not.

SFT4-WDRLBDRY

1 if arc is part of a withdrawal area boundary; 0 if not.

SFT4-OMRBDRY

1 if arc is part of an Off-Map Referenced tract group boundary; 0 if not.

SFT4- TRACTBDRY

1 if arc is part of a surface tract boundary; 0 if not.

SLP4

Slope

SLP4 is comprised of polygons for areas within categories of terrain steepness.

Source

Typically derived from USGS Digital Elevation Model data.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SLP4.PAT**							
25	SLP4-SLOPE	4	4	C	-	S	(HOPI; rename ATTRIBUTE)
				2,2,C			(YAVAPA; rename SLP-ATT)
				9,9,C			(FLATHD; rename SLOPE)
				2,3,I			(SANCAR; rename SLOPE and keep item DISSOLVE)
	(None of the 4 reservations uses the same format to store slope information)						
Datafile Name: **SLP4.AAT**							
33	SLP4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

SLS1/2/4

Soils

Source

The data are usually captured from soil conservation service 1:20,000 scale county based soil surveys, using a zoom transfer scope. The mylars from this process are then digitized or scanned into digital format. The attributing of this layer is highly variable.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SLS4.PAT**							
25	SLSn-ATT	n	n	C	-		
Datafile Name: **SLS4.AAT**							
33	SLS4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

Streams: some ATTRIBUTE items are stream names. These polygons should remain in the layer but not be attributed with the stream names. Options are:

- store 'W' in SLS4-ATT
- treat as 'OUT' islands with '-9999'

In any case, move the streams to STR3 if not already there.

Exceptions: QUINLT and HOOPA already have their own structure and will not be modified. Use of a relate table for Hoopa should be considered.

ATTRIBUTE cannot be broken down into different types without extensive research. Rename ATTRIBUTE or SLS-ATT to:

Reservations spanning more than one county may have the county name as part of the layer name, e.g. SLSDEW4, soils for Dewey County.

SPF1/2/4

Special Features

Source

Item Definitions

Datafile Name: **SPF4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	SPF4-ATT	n	n	C	-	N	

Datafile Name: **SPF4.AAT**

33	SPF4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

SPT1 SPT1 SPT1 SPT1

Springs and Tanks

Points are captured in this layer to show water sources and containments. Tanks are usually a man-made water container. In the southwestern US, tanks are man-made dirt depressions used to collect runoff for cattle watering. In the rest of the US, tanks are considered to be the "wt" label for "water tower" shown in black ink on quad sheets. Both uses are acceptable.

Source

USGS 7 1/2' quadrangles.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SPT1.PAT**							
25	SPT1-CLASS	3	3	C	-	C	(general case)
	"	7	7	C	-	C	(2 classes at the same point)
	"	11	11	C	-	C	(3 classes at the same point)
28	SPT1-TYPE	3	3	C	-	T	
	"	7	7	C	-	T	
	"	11	11	C	-	T	
31	SPT1-NAME	30	30	C	-	N	Feature name

Data Values

SPT1-CLASS

Valid classes are:
- GUZ: guzzler
- PND: pond
- PST: pumping station
- SEW: sewage tank
- SMP: sump
- SPG: spring
- TNK: tank
- TRO: trough
- WEL: well
- WM: windmill

SPT1-TYPE

- ABD: abandoned (wells)
- ART: artesian(wells)
- DEV: developed (springs)
- DPW: deep well (wells)
- DRT: dirt (tanks)
- FLW: flowing (wells)

- GEO: geothermal (springs)
- HAR: hot artesian (wells)
- INT: intermittent (wells, springs)
- MTB: metal tub (tanks)
- POT: potential (springs)
- PRM: permanent (springs)
- SEP: seep
- SEW: sewage tank
- SLR: solar pump (wells)
- SLT: salt (wells)
- STK: stock (tanks)
- TST: test well(wells)
- UND: undeveloped (springs)
- WM: windmill(windmills)
- WTR: water (tanks)
- <number>: number of <-CLASS> features at that location (ex.: 3 small tanks digitized as one).

SPT1-NAME

For geographical names (ex.: 'ALLIGATOR SPRING').

Special case: keep item SPT1-COND for JICARI.

Comments

Item SPT1-CLASS retains the value of PND even though ponds have an areal extent and should be placed in the LAK4 theme.

When several classes are present at one location, they will be separated by a '/'. For example, a well powered by a windmill and flowing into a tank would be labeled 'WEL/WM/TNK'.

In case of multiple classes that each have a type, the types will be separated by slashes, in the same order as in -CLASS.

SRL1

Special Risk - Landfill

Landfills or dump sites that may contain hazardous material.

Source

User-defined, typically drafted on 7 1/2’ quads or on quad-based mylar.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SRL1.PAT**							
25	SRL1-ATT	9	9	C	-		A

Data Values

Only values are ’DUMP’ and ’DUMP SITE’.

STR2

Streams, linear

Surface water courses, depicted as line features on quad maps.

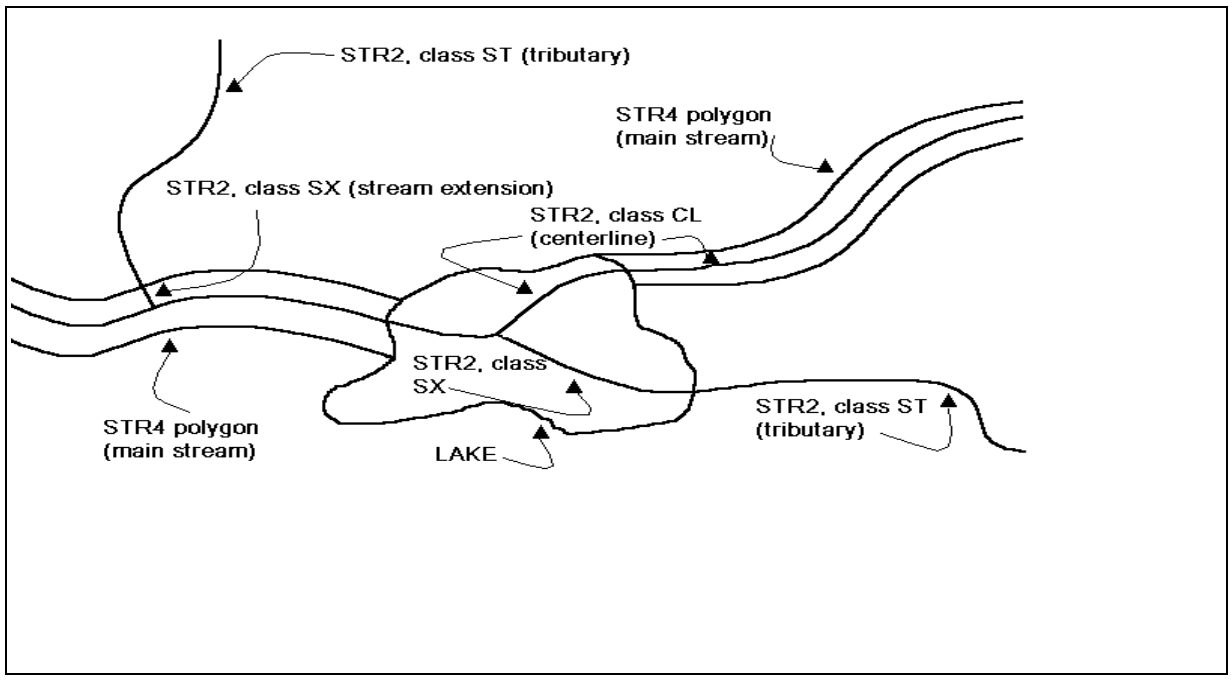
Source

USGS 7 /12' quadrangles, although other sources may be used.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **STR2.AAT**							
33	STR2-CLASS	2	2	C	-	C	Feature class
35	STR2-TYPE	2	2	C	-	T	Feature type
37	STR2-NAME	30	30	C	-	N	Feature name
67	STR2-QUAL	3	3	C	-	Q	Additional feature description
70	STR2-CODE	1	1	I	-	CO	Display code (derived from STR2-CLASS and STR2-TYPE)
71	STR2-SYM	3	3	I	-	S	USGS symbology code.
74	STR2-SOURCE	8	8	C	-		Source of the data.

The following figure shows examples of stream centerlines and stream extensions:



Data Values

STR2-CLASS
AQ - Aqueduct
CA - Canal
CD - Channel with dikes
CH - Channel
CL - Centerline of polygonal stream
DK - Dike
DR - Drain
DT - Ditch

FL - Flume
LT - Lateral
SH - Shoreline
SL - Slough
ST - Stream
SX - Stream extension into polygonal stream
WA - Wash

STR2-TYPE

I - Intermittent
P - Perennial
-8: Unknown

STR2-NAME

Use standard abbreviations if more than 30 characters.

STR2-QUAL

ABD - abandoned
ABG - above ground
SIP - siphon
UNG - underground

STR2-CODE

STR2-CLASS	STR2-TYPE	STR2-CODE
ST,DT,DK,CH,CD,AQ,CA,WA	P	1
ST,DT,DK,CH,CD,AQ,CA,WA	I	2
CL	P	3
CL	I	4
SX	P	5
SX	I	6
any class	-8	7

STR2-SYM

STR2-SOURCE

Optional item to record the data source (e.g. DLG).

Comments

Labeling additional arcs can be used to model connectivity with STR4 and LAK4. In areas where intermittent streams "disappear" into washes, arbitrary centerlines of the wash maintain the connectivity of the watercourse.

Centerlines

The reason for centerlines and stream extensions is to provide a continuous hydrographic network. Some situations, particularly when streams flow in and out of lakes, may be open to interpretation as to exactly what should be a stream extension, or a centerline, or nothing at all. The following guidelines may be helpful:

- To create a centerline in STR2, use STR4 or LAK4 as a background coverage. You may be able to use an existing line from another layer (such as RBD4, CTY4) as the centerline.
- Centerlines are intended to show the general direction of a lake or polygonal stream and may run through islands rather than following the actual stream flow around them.
- Centerlines should follow a natural curve through a lake between the inlet and outlet of the stream but not necessarily reach the center of the lake.
- Centerlines through lakes normally connect two polygonal streams with the same name, or two polygons which can be considered part of the same main river.

- If more than 2 polygonal streams connect to a lake, then their centerlines should meet somewhere inside the lake.
- If a main stream enters and leaves a lake but is linear on one side and polygonal on the other, then the connection is also a centerline. However, if a lake has a polygonal stream outlet but all inlets are linear and all of those are considered tributaries of the polygonal stream, then the inlets should be connected to the outlet centerline by stream extensions.
- A lake with only one inlet or one outlet does not have any centerline or stream extension; the stream should stop at the lakeshore.
- A centerline or stream extension will carry the name (if any) of the stream it is connected to. It will not carry the name of a lake through which it passes.

Washes

STR2 classification of "wash"

A "wash" is depicted on USGS quads with symbols for either intermittent stream (USGS symbol 409) and sand or mud area (USGS symbol 317). There is no line through the sand or mud area. In order to show continuity of the stream, an arc will be digitized through the sand area connecting the hydrological feature (intermittent stream, lake, etc.) on each end of the wash. The stream will receive ST for item STR2-CLASS; the arc added through the sand area will receive WA for item STR2-CLASS.

Whatever name may be associated with the stream will be entered in item STR2-NAME. For example, in Navajo a feature with both intermittent stream and sand area symbology is named Moenkopi Wash. Arcs depicting the actual stream will be labeled:

STR2-CLASS	ST
STR2-TYPE	I
STR2-NAME	MOENKOPI WASH

Arcs depicting the continuity of the stream course through the sand area will be labeled:

STR2-CLASS	WA
STR2-TYPE	I
STR2-NAME	MOENKOPI WASH

STR4

Streams, polygonal

Surface water courses, depicted as polygon features on a quad map.

Source

Captured from 7.5' USGS quadrangles. Polygonal streams have width and are depicted on the maps as a blue-shaded area.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **STR4.PAT**							
25	STR4-CLASS	2	2	C	-	C	
27	STR4-TYPE	2	2	C	-	T	
29	STR4-NAME	n	n	C	-	N	Stream name (or island name)
Datafile Name: **STR4.AAT**							
33	STR4-CODE	1	1	I	-	CO	Display code

Data Values

STR4-CLASS IS - Island, plus all STR2-CLASS options

STR4-TYPE I - Intermittent
P - Perennial
-8: Unknown

Comments

Use standard abbreviations if more than 30 characters

SUR1

Survey Control

Points of reference used for land survey work. Typically locally produced and less accurate than the high precision NGS1 points. SUR1 points would fit within the NGS1 network.

Source

DLG data

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SUR1.PAT**							
25	SUR1-STA	3	3	I	-	S	Control Stations
28	SUR1-ELEV	5	5	I	-	E	Elevation in feet

Data Values

SUR1-STA

- 216 - Horizontal CS, 3rd order or better, permanent mark
- 217 - Horizontal CS and Benchmark
- 218 - Horizontal CS and VABM
- 219 - Horizontal CS and Spot elevation
- 220 - Vertical Control (Benchmark) - Tablet
- 221 - Vertical Control (Benchmark) - No Tablet
- 223 - Boundary Monument without Tablet
- 224 - Spot Elevation
- 226 - reference Monument
- 227 - Mineral Location Monument
- 229 - Corner-Section, Horizontal Control Station
- 231 - Control Points - other
- 300 - Horizontal CS, 3rd order or better, permanent mark
- 301 - Horizontal & Vertical CS, 3rd order or better
- 303 - Horizontal CS, Checked Spot elevation
- 310 - Vertical CS, 3rd order or better, tablet
- 311 - Vertical CS, recoverable mark, 3rd order or better, no tablet
- 318 - Spot elevation - cross
- 319 - Spot elevation - unchecked
- 501 - Land Grant Monument
- 506 - Corner-Section, Strong, .010
- 507 - Corner-Closing, Strong, .010

Traditional Lands

Source

Item Definitions

Datafile Name: **TDL4.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	TDL4-NAME	30	30	C	-	N	

Datafile Name: **TDL4.AAT**

33	TDL4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

TOW1

Towers

This layer contains lookout towers used for fire applications, and communication towers for all applications.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **TOW1.PAT**							
25	TOW1-NAME	n	n	C	-	N	

Data Values

Comments

Rename ATTRIBUTE or TOW-ATT. Expand 'LO' to 'LOOKOUT TOWER'. Remove leading 3-digit symbol in ATTRIBUTE.

TRE1

Grazing Trends

Long-term vegetation monitoring to determine trend of range condition.

Source

Phoenix Area Office (Chris English and Deswood Etsitty), 1991. Typically, range condition data is collected by Agency range conservationist every 10 years to assess trend.

Item Definitions

Datafile Name: **TRE1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	TRE1-PLOT_ID	9	9	C	-		

Data Values

TRE1-PLOT_ID examples: 2-4-2, 2-9-1, 1-8-7A, 351-E, X-11

Comments

Initial vegetation survey completed however classification data is not yet in database.

TSU4

Timber Sale Units

Timber sale units are used for setting up timber sale contracts. They are made up of compartments and stands.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **TSU4.PAT**							
25	TSU4-YEAR	4	4	I	-	Y	Year of sale, available from most ATTRIBUTE items. Add 1900 if needed.
29	TSU4-NAME	30	30	C	-	N	Name or ID number of unit.
Datafile Name: **TSU4.AAT**							
33	TSU4-CODE	1	1	I	-	CO	Display code

Data Values

TTS4

Timber Tracts and Stands

Polygon theme for area used in timber management programs.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content	
Datafile Name: **TTS4.PAT**								
25	TTS4-TRACTNUM	6	6	C	-	T	Tract number
31	TTS4-STAND	2	2	C	-	S	Stand number
Datafile Name: **TTS4.AAT**								
33	TTS4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

This layer was created in the CORDLN library. It is different from other Timber Stands layers because the item TTS4-TRACTNUM relates to the parcel number from LST4 where the stand is located.

TTY4

Timber Type

This smallest unit used by foresters is a grouping of trees with similar characteristics such as diameter, height, age, etc.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **TTY4.PAT**							
	Albuquerque area structure:						
25	TTY4-COMP	2	2	I	-	C	Compartment number
27	TTY4-STAND	3	3	I	-	S	Stand number
30	TTY4-OSPEC	3	3	C	-		Overstory species (may be 'H2O')
33	TTY4-ODENS	2	2	I	-		Overstory density
35	TTY4-OSIZE	2	2	C	-		Overstory size
37	TTY4-USPEC	2	2	C	-		Understory species
39	TTY4-UDENS	2	2	I	-		Understory density
41	TTY4-USIZE	2	2	C	-		Understory size
	TULERV structure:						
25	TTY4-VPA	4	4	N	1		Volume per acre ((low range + high range) / 2)
29	TTY4-VOLUME	8	12	F	3	V	Total volume (vpa * acres)
37	TTY4-STAND	13	13	C	-	S	Stand ID
50	TTY4-NAME	40	40	C	-	N	Stand name
90	TTY4-OSTORY	2	2	C	-		Overstory:
						H	hardwood stand
						K	Rock
						N	Brush
						O	Oak-Buckey-Laurel-Brush mixture (chaparral or scrub)
						D	Developed lands - Homesites
						G	Grassland
						L	Large conifers
						M	Medium conifers
						MS	Medium to small conifers
						S	Small conifers
						X	Reproduction size conifers
						PL	Conifer Plantation
92	TTY4-ODENS	2	2	I	-		Density code: 1 is most dense, 6 is least dense.
94	TTY4-USTORY	2	2	C	-		Understory:
						L	Large conifers
						M	Medium conifers
						MS	Medium to small conifers
						S	Small conifers
						X	Reproduction size conifers

						+	Large to medium conifers in H - hardwood stands
						-	Medium to small conifers in H - hardwood stands
96	TTY4-UDENS	2	2	I	-		Density code: 1 is most dense, 6 is least dense.
98	TTY4-BRUSH	2	2	C	-		Secondary brush when overstory is H (hardwood or conifer):
						N	Brush
						K	Rock
100	TTY4-SPECIES	6	6	C	-		Species composition; up to 6 letters describing species composition:
						P	Ponderosa Pine
						S	Sugar Pine
						F	White Fir
						Y	Scattered conifers in H - hardwood stands
						A	Buckeye in H stands
						B	Black Oak in H stands
						D	Blue Oak in H stands
						L	Live Oak, Laurel in H stands
						T	Sycamore, Cottonwood, Willow in H stands
106	TTY4-SDENS	2	2	I	-		Sequoia density when R in species item
108	TTY4-HSIZE	2	2	C	-		Hardwood size
						+	Mature hardwood tree forms frequent
						-	Essentially immature hardwood tree forms

Northern Cheyenne (Billings model?)

25	OTHER	8	8	C	-		Other land use or land cover
33	OSIZE		1	1	I	-	Overstory size (1 - 4)
34	ODENS	1	1	I	-		Overstory density (1 - 4)
35	ACCESS	1	1	C	-		I = inaccessible
36	CUTCLASS	1	1	C	-		R = cutover
37	PRODUCT	1	1	C	-		. = marginal
38	USIZE		1	1	I	-	Understory size (1 - 4)
39	UDENS	1	1	I	-		Understory density (1 - 4)
40	SUFFIX	1	1	C	-		one alpha character

Other cases (data does not fit any of the above):

25	TTY4-ATT	n	n	C	-		Rename existing ATTRIBUTE or TTY-ATT

Datafile Name: **TTY4.AAT**

33	TTY4-CODE	1	1	I	-	CO	Display code

Comments

- HOOPA: the only existing item is TTY-CODE and will be renamed TTY4-ATT for consistency.
- CROW, UINORY, UMATIL: these each have their own structure and will be kept as they are.

TWP4

Townships

This layer refers to townships as political boundaries (subdivision of a county), not to townships as part of the PLS system. It is used mostly in eastern reservations which are not covered by PLS.

Source

USGS 7 1/2' quadrangles.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **TWP4.PAT**							
25	TWP4-NAME	30	30	C	-	N	Township name
Datafile Name: **TWP4.AAT**							
33	TWP4-CODE	1	1	I	-	CO	Display code

Data Values

Comments

UTL2/5

Utilities

This layer contains pipeline and powerline data.

Source

USGS 7 1/2' quadrangles.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **UTL2.AAT, UTL5.PAT**							
UTL2-CLASS	3	3	C	-	C		Feature class
UTL2-TYPE	3	3	C	-	T		Feature type
UTL2-NAME	n	n	C	-	N		Descriptive information (usually the Utility Company's name).
UTL2-QUAL	3	3	C	-	Q		Additional feature description.

Data Values

UTL2-CLASS

PPL: Pipelines
PWL: Power lines
TEL: Telephone lines

UTL2-TYPE For PPL class:

- H2O: Water pipeline
- OIL: Oil pipeline
- GAS: Gas pipeline
- O&G: Oil or Gas pipeline
- SEW Sewer
- PMP Pumping Station

For PWL class:

- PWL: Power line
- BST: border station
- RST: reg. station
- SST: substation
- PWP Power plant
- PST power station

For TEL class:

- TEL: Telephone line

UTL2-QUAL ABV - Above ground
UND - Underground

Comments

Data in UTL2/5 was formerly found in layers PTL, PTL2, and TRN. However, pipeline data contained in layer RWA2 is specific to range improvements and remains in that layer.

Capture the arcs comprising the outlines of power plants and substations. Label as such.

Don’t create nodes where powerlines cross pipelines, or where two powerlines cross.

VEG4

Vegetation

Polygon theme defining areas of similar vegetation type or formation.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **VEG4.PAT**							
25	VEG4-TYPE	3	3	C	-	T	Vegetation type:
28	VEG4-QUAL	1	1	C	-	Q	Additional feature description
Datafile Name: **VEG4.AAT**							
33	VEG4-CODE	1	1	I	-	CO	Display code

Data Values

VEG4-TYPE (items marked with * derived from USGS DLG dataset)

AG: Agricultural Land	BR: Brush
D: Developed Land	FL: Forest, Light Stocking
FM: Forest, Medium Stocking	FR: Forest, Regeneration
FW: Forest, Well Stocked	G: Grass Lands
M: Marsh	OR: Orchard/Plantation*
SR: Scrub*	V: Vineyard*
W: Water	WD: Woods/Brushwood*

VEG4-QUAL

W: Water - to accommodate DLG coincidence feature.

WSA4

Watershed Areas

Watersheds are river basin boundaries. They are useful in many hydrodynamic and hydrologic assessments.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **WSA4.PAT**							
25	WSA4-ATT	n	n	C	-	A	
	Rename ATTRIBUTE, WSA-ATTRIBUTE (SPOKAN), WSA-ATT (YAVAPA).						
Datafile Name: **WSA4.AAT**							
33	WSA4-ATT	1	1	I	-	CO	Display code

Data Values

Comments

DETAILED RULES FOR LAYERS

IN USA LIBRARY

AZLAND

Arizona Land

General land ownership for the State of Arizona.

Source

Arizona Land Records and Information System (ALRIS) derived from BLM 1:100,000 maps.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **AZLAND.PAT**							
25	TOWNSHIP	4	4	C	-		
29	RANGE	4	4	C	-		
33	SECTION	2	2	C	-		
35	COUNTY	2	2	I	-		
37	BASE	1	1	I	-		
38	TRS.SOURCE	2	2	I	-		
40	OWNER	2	2	I	-		
42	OWN.SOURCE	2	2	I	-		
44	STATUS.DATA	8	10	D	-		
	** Redefined items **						
25	TR	8	8	C	-		
25	TRS	10	10	C	-		
25	TRS-CO	12	12	C	-		

AZPLX

Arizona Township and Range

Township and range data for the State of Arizona.

Source

Arizona Land Records and Information System (ALRIS) derived from BLM 1:100,000 maps.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **AZPLX.PAT**							
25	TOWNSHIP	4	4	C	-		
29	RANGE	4	4	C	-		
	** Redefined items **						
25	TR	8	8	C	-		

BIAAO

BIA Area Offices

The Bureau of Indian Affairs is organized into 12 area offices, 11 of which are in the 48 conterminous states and are represented here.

Source

Bureau of Indian Affairs

Item Definitions

Datafile Name: **BIAAO.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	FIPS:ST	2	2	I	-		State FIPS code
27	NAME	20	20	C	-	N	Area Name
47	RESACRES	8	8	I	-		Reservation acreage
55	QUADS	4	4	I	-		
59	ACRES	8	15	F	3	-	Polygon acreage

Datafile Name: **BIAAO.AAT**

33	BIAAO-CODE	1	1	I	-	CO	Display code

BIA_ORG1

BIA Organization

Address information for BIA Area and Agency Offices.

Source

Bureau of Indian Affairs

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **BIA_ORG1.PAT**							
25	ORG_ID	2	5	B	-	ID	Organization ID
27	ORG_NAME	50	50	C	-	N	Organization name
77	ORG_CODE	4	4	C	-	CODE	Organization code
81	ORG_CLASS	6	6	C	-	C	
87	AREA_CODE	3	3	C	-	AC	BIA Area Office
90	BUILDING	35	35	C	-	B	
125	POB	35	35	C	-		Post office box
160	STREET	35	35	C	-	S	Street address
180	CITY	20	20	C	-		
200	STATE	2	2	C	-	ST	
202	ZIP	5	5	C	-	Z	
207	ZIP4	4	4	C	-	Z4	
211	PHONE 12	12	C	-	P		
223	FAX	12	12	C	-	F	
235	COMMENTS	240	240	C	-		

BIA_SCH1

BIA Schools

Address information for BIA schools.

Source

Bureau of Indian Affairs

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **BIA_SCH1.PAT**							
25	SCH1-HEAD	32	32	C	-		H
57	SCH1-NAME	40	40	C	-		N
97	SCH1-ADD	56	56	C	-		A
153	SCH1-CITY	16	16	C	-		C
169	SCH1-STATE	2	2	C	-		S
171	SCH1-ZIP	5	5	C	-		Z

BLM95

BLM Land

Bureau of Land Management land, west of the 100th meridian.

Source

Bureau of Land Management Denver Service Center,1995.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **BLM95.PAT**							
25	BLM-ATT	3	3	C	-	A	BLM or -99 (out polygons)
28	ACRES	8	15	F	3		Polygon acreage
Datafile Name: **BLM95.AAT**							
33	BLM-CODE	1	1	I	-	CO	Display code

CARBD

California Indian Reservations

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **CARBD.PAT**							
25	NAME	32	20	C	-		
57	AREAOFFICE	20	20	C	-		

COUNTIES

County Boundaries

Source

Item Definitions

Datafile Name: **COUNTIES.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	ST-FIPS	2	3	I	-		State FIPS code
27	CNTY-FIPS	3	4	I	-		County FIPS code
30	ACRES	8	15	F	3		Polygon acreage

ECOREG

Ecology Regions

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **ECOREG.PAT**							
25	ECOCODE	5	5	C	-		
30	DOMAIN	100	100	C	-		
130	DIVISION	100	100	C	-		
230	PROVINCE	100	100	C	-		
330	SECTION	100	100	C	-		
430	STAT-NAME	30	30	C	-		
460	ACRES	8	15	F	3		
*** Redefined items ***							
25	MCODE	1	1	C	-		
26	PCODE3	3	3	I	-		
29	SCODE1	1	1	C	-		
330	KEY	3	3	C	-		
25	MTEXT	4	4	C	-		
26	FDIGIT	4	4	C	-		

EPA8

Environmental Protection Agency Regions

The EPA's ten organizational regions in the 48 conterminous states.

Source

US Environmental Protection Agency

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **EPA.PAT**							
25	EPA8-NUM	2	2	I	-		
27	EPA8-NAME	10	10	C	-		

FERC1

Federal Energy Sites

Hydroelectric power dam locations.

Source

Item Definitions

Datafile Name: **FERC1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	PROJNO	4	4	I	-	P	
29	DEVELOPER		37	37	C	-	D
66	TYPE		1	1	I	-	T
67	STREAM	9	9	C	-	S	
76	COUNTY	9	9	C	-	C	
85	STATE		2	2	C	-	ST
87	RESERVOIR		9	9	C	-	R
96	LAT		4	4	C	-	L
100	LONG		5	5	C	-	LO
105	EXPDATE	8	8	C	-	ED	
113	LONGLAT	18	18	C	-		

GRID

One degree graticule

A one degree latitude longitude graticule.

Source

Generated in Arc/INFO at the GDSC.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **GRID.PAT**							
33	LL	4	4	C	-		Latitude or longitude of the line
	** Redefined items **						
33	DEGREE	3	3	I			Numerical portion of LL
36	DIR	1	1	C			Directional portion of LL

HUC250

Hydrological Units Catalog

Source

United States Geological Survey

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **HUC250.PAT**							
25	HUC	8	8	I	-		Hydrologic unit catalog number
	** Redefined items **						
25	REGION	2	2	I	-		
27	SUBREGION	2	2	I	-		
29	ACCTUNIT	2	2	I	-		
31	HYDROUNIT	2	2	I	-		
Datafile Name: **HUC250.AAT**							
33	SOURCE		1	1	I	-	

HUC2M

Hydrological Units Catalog

Source

United States Geological Survey

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **HUC2M.PAT**							
25	PLYTYPE	1	1	I	-		
26	HUC	8	8	I	-		
34	WORKB	4	5	B	-		
	** Redefined items **						
26	HUC2	2	2	I	-		
26	HUC4	4	4	I	-		
26	HUC6	6	6	I	-		
26	REG	2	2	I	-		
26	SUB	4	4	I	-		
26	ACC	6	6	I	-		
26	CAT	8	8	I	-		
Datafile Name: **.AAT**							
	BNDTYPE	2	2	I	-		

IDxxxnn

Idaho Forestry

Source

Carson National Forest Cartographic Feature Files.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content

Datafile Name: **IDxxxnn.PAT**

IHS1

Indian Health Service Sites

Address information for Indian Health Service sites.

Source

Bureau of Indian Affairs

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **IHS1.PAT**							
25	IHS1-NAME	44	44	C	-		N
69	IHS1-ADD	51	51	C	-		A
120	IHS1-CITY	20	20	C	-		C
140	IHS1-STATE	2	2	C	-		S
142	IHS1-ZIP	5	5	C	-		Z

JUD4

Judicially Established Indian Land Areas

Source

Indian Land Commission

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **JUD4.PAT**							
25	MAP-NUM3	3	I	-	N		
28	TRIBAL-OWNER	65	65	C	-	O	
93	DOCKET 45	45	C	-	D		
138	DATE-EXISTED	9	9	C	-	E	
147	CITATIONS	115	115	C	-	C	
Datafile Name: **JUD4.AAT**							
33	BOUNDARY	1	1	I	-	B	

MIL1

Military Facilities

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **MIL1.PAT**							
25	MIL1-NAME	30	30	C	-		
55	MIL1-SERVICE	4	4	C	-		
59	MIL1-YEAR	2	2	I	-		
61	MIL1-OEA	16	16	C	-		

MIL95

Military Facilities Slated for Closure ’95

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **MIL95.PAT**							
25	MIL1-NAME	30	30	C	-		
55	MIL1-SERVICE	4	4	C	-		
59	MIL1-YEAR	2	2	I	-		
61	MIL1-OEA	16	16	C	-		

MNECOREG

Minnesota Ecological Regions

Source

Minnesota Land Management Information Center

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **MNECOREG.PAT**							
25	ECOREG	1	1	I	-		

MNWSHED

Minnesota Watersheds

Source

Minnesota Land Management Information Center

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **MNWSHED.PAT**							
25	MINOR7	7	7	I	-		
32	ACRES	8	15	F	3		
	** Redefined items **						
25	MAJOR 2	2	I	-			
27	MINOR3	3	3	I	-		
30	SUBBASIN	2	2	I	-		
25	MINOR5	5	5	I	-		
Datafile Name: **MNWSHED.AAT**							
33	CODE 1	1	1	I	-		

NCSLSMACON

North Carolina, Macon County Soils

Source

Natural Resources Conservation Service

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **NCSLSMACON.PAT**							
25	DSL-NAME	6	7	C	-		
31	HYDRIC	1	2	C	-		
Datafile Name: **NCSLSMACON.AAT**							
33	ATYPE	4	5	B	-		

NYEBASE

New York State Environmental Base Data

Source

New York State Department of Health

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **NYEBASE.PAT**							
25	DOC-ID3	3	C	-			
28	SAMP-ID	4	4	C	-		
32	DOCSAMP-ID	8	8	C	-		
40	GMT	3	3	C	-		
43	DSAMPLE	4	4	C	-		
47	CONTYPE	3	3	C	-		
50	INST	2	2	C	-		
52	CONCENT	12	12	N	3		
64	UNITCON	1	1	C	-		
65	DLT	7	7	N	3		
72	UNITDLT	1	1	C	-		
73	BCON	1	1	C	-		
74	PFAT	5	5	N	2		
79	LOCATION	55	55	C	-		
134	GEOCODE	2	2	C	-		
136	XCOORD	9	9	I	-		
145	YCOORD	9	9	I	-		
154	EXTR_METH	2	2	C	-		
156	SEP_TECH	2	2	C	-		
158	DETEC_METH	2	2	C	-		
160	QUALIFIERS	60	60	C	-		
220	SAMP_TYPE	2	2	C	-		
222	SPLITS	2	2	C	-		
224	OTHER_QAQC	2	2	C	-		
226	SAMP_REF	25	25	C	-		
251	LAB_REF	25	25	C	-		
276	MEDIA_CHAR	25	25	C	-		

NYHAZSITE

New York State Hazardous Waste Sites

Source

New York State Department of Health

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **NYHAZSITE.PAT**							
25	SITENUM	7	7	C	-		
32	LAT	11	11	C	-		
43	YCOORD	9	9	I	-		
52	LONG	11	11	C	-		
63	XCOORD	9	9	I	-		
72	NYTM_E	8	8	N	1		
80	NYTM_N	8	8	N	1		
88	SITENAME	40	40	C	-		
128	QUADMAP	1	1	C	-		
129	SITEMAP	1	1	C	-		
130	CLASS	2	2	C	-		
132	REG	1	1	C	-		
133	CO	2	2	C	-		
135	TOWN	25	25	C	-		
160	COUNTYNAME	12	12	C	-		
172	MILE1POP	7	7	I	-		
179	HALFMILE	7	7	I	-		
186	BLOCKNUM	5	5	I	-		
191	BLOCKHALF	5	5	I	-		
196	NOTE	60	60	C	-		

NYTRIFAC89

New York State

Source

New York State Department of Health

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **NYTRIFAC89.PAT**							
25	F_NAME1	30	30	C	-		
55	F_NAME2	30	30	C	-		
85	F_STREET1	30	30	C	-		
115	F_STREET2	30	30	C	-		
145	F_CITY	25	25	C	-		
170	F_COUNTY	25	25	C	-		
195	MAP_COUNTY	25	25	C	-		
220	F_STATE	2	2	C	-		
222	F_ZIP	9	9	C	-		
231	YCOORD	9	9	I	-		
240	XCOORD	9	9	I	-		
249	F_LAT	8	8	C	-		
257	NEWLAT	8	8	C	-		
265	F_LONG	8	8	C	-		
273	NEWLONG	8	8	C	-		
281	PUB_NAME	45	45	C	-		
326	PUB_PHONE	10	10	C	-		
336	PARENT_CO	45	45	C	-		
381	PARENT_DUN	9	9	C	-		
390	COUNTYFIPS	5	5	C	-		
395	UIC_ID1	12	12	C	-		
407	UIC_ID2	12	12	C	-		
419	F_EPAID	12	12	C	-		
431	SIC_CODE1	4	4	C	-		
435	SIC_CODE2	4	4	C	-		
439	SIC_CODE3	4	4	C	-		
443	F_DUNS	9	9	C	-		
452	DCN	15	15	C	-		
467	F-ID	15	15	C	-		
482	NOTE	40	40	C	-		
522	CODE	1	1	I	-		

OKPLS4

Oklahoma Public Land Survey System

Township, range and section data for the State of Oklahoma.

Source

Petroleum Institute

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **OKPLS4.PAT**							
25	CLASS	2	2	I	-		
27	SWX	4	10	F	6		
31	SWY	4	10	F	6		
35	NEX	4	10	F	6		
39	NEY	4	10	F	6		
43	POINT	4	6	B	-		
47	STATE	2	2	I	-		
49	COUNTY	3	3	I	-		
52	RAIL	4	4	C	-		
56	SURVEY	32	32	C	-		
88	MERIDIAN	3	3	I	-		
91	BLOCK	20	20	C	-		
111	TOWNSHIP	6	6	C	-		
117	RANGE 6	6	C	-			
123	SECTION	3	3	I	-		
126	GIISECTION	16	16	C	-		
142	ACRES	8	15	F	3		
	** Redefined items **						
111	TOWNRANGE	12	12	C	-		
111	TWN	5	5	N	1		
116	TDIR	1	1	C	-		
117	RNG	5	5	N	1		
122	RDIR	1	1	C	-		

Datafile Name: **OKPLS4.AAT**

no items past -ID

ORNPDES1

Oregon

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **ORNPDES1.PAT**							
25	PRIMSTATNUM	15	15	C	-		
40	PIPE-ID10	10	C	-			
50	MAJ	1	1	C	-		
51	DLNG	10	10	N	1		
61	DLAT	8	8	C	-		
69	DDLNG 10	10	N	5			
79	DDLAT	8	8	C	-		
87	CMNT	40	40	C	-		
127	FAC_NAME	40	40	C	-		
	** Redefined item **						
52	LNGD	3	3	N	0		

RBD

Reservation Boundaries

Source

Item Definitions

Datafile Name: **RBD.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	NAME	32	20	C	-		Reservation name
57	AREAOFFICE	20	20	C	-		BIA area office
77	ACREAGE	9	9	I	-		Legal acreage
86	ACRES	8	15	F	3		Polygon acreage

Datafile Name: **RBD4.AAT**

no items past -ID

SDSLSLYMAN

Lyman County,South Dakota Soils

Source

Natural Resources Conservation Service

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **SDSLSLYMAN.PAT**							
25	MAJOR1	6	6	I	-		
31	MINOR1	6	6	I	-		

STATES

States

Outlines of the 48 conterminous United States.

Source

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **STATES.PAT**							
25	ST-FIPS	2	3	I	-		
27	AB	2	2	C	-		
29	STNAME	20	20	C	-		

TRIBAL_ORG1

Tribal Organizations

Address locations for tribal entities

Source

Item Definitions

Datafile Name: **TRIBAL_ORG1.PAT**

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
25	ORG_ID	2	5	B	-	ID	Organization ID
27	ORG_NAME	50	50	C	-	N	Organization name
77	ORG_CODE	4	4	C	-	CODE	Organization code
81	ORG_CLASS	6	6	C	-	C	
87	AREA_CODE	3	3	C	-	AC	BIA Area Office
90	BUILDING	35	35	C	-	B	
125	POB	35	35	C	-		Post office box
160	STREET	35	35	C	-	S	Street address
195	CITY	20	20	C	-		
215	STATE	2	2	C	-	ST	
217	ZIP	5	5	C	-	Z	
222	ZIP4	4	4	C	-	Z4	
226	PHONE	12	12	C	-	P	
238	FAX	12	12	C	-	F	
250	COMMENTS	240	240	C	-		

UTMZONE

Universal Transverse Mercator Zones

Source

Generated in Arc/INFO at the GDSC.

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **UTMZONE.PAT**							
25	UTMZONE	2	2	I	-		Number of the zone
Datafile Name: **UTMZONE.AAT**							
33	LONG	4	4	C	-		Longitude of line
37	CODE	1	1	I	-		Display code

WACERC1

Washington State CERC Sites

Source

Washington State Department of Natural Resources

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **WACERC1.PAT**							
25	FAC_ID12	12	12	C	-		
37	FAC_NAME	40	40	C	-		
77	LAT	8	8	C	-		
85	LONG	9	9	C	-		
94	INACTIVE	1	1	C	-		
95	NPL_STATUS	1	1	C	-		
96	LLSRC	1	1	C	-		
97	REMACT	1	1	C	-		
98	SYMBOL	3	3	I	-		
101	FIPS:ST	2	2	I	-		
103	HUC	8	8	I	-		
111	X-COORD	4	12	F	3		
115	Y-COORD	4	12	F	3		
	** Redefined items **						
25	STATE	2	2	C	-		

WANPDES1

Washington

Source

Washington State Department of Natural Resources

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **WANPDES1.PAT**							
25	PRIMSTATNUM		15	15	C	-	
40	PIPE-ID10	10	C	-			
50	MAJ	1	1	C	-		
51	DLNG	10	10	N	1		
61	DLAT	8	8	C	-		
69	DDLNG 10	10	N	5			
79	DDLAT	8	8	C	-		
87	CMNT	40	40	C	-		
127	FAC_NAME	40	40	C	-		
	** Redefined item **						
52	LNGD	3	3	N	0		

WARCRA1

Washington

Source

Washington State Department of Natural Resources

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **WARCRA1.PAT**							
25	FAC_ID12	12	C	-			
37	FAC_NAME	40	40	C	-		
77	LAT	8	8	C	-		
85	LONG	9	9	C	-		
94	D	1	1	C	-		
95	I	1	1	C	-		
96	TS	1	1	C	-		
97	GW	1	1	C	-		
98	SW	1	1	C	-		
99	SOIL	1	1	C	-		
100	AIR	1	1	C	-		
101	CA	1	1	C	-		
102	LLSRC	1	1	C	-		
103	SYMBOL	3	3	I	-		
106	FIPS:ST	2	2	I	-		
108	HUC	8	8	I	-		
116	X-COORD	4	12	F	3		
120	Y-COORD	4	12	F	3		
	** Redefined items **						
25	STATE	2	2	C	-		

ZIP1

Washington

Point data representing the centroid of five-digit zip code polygons.

Source

Bureau of the Census

Item Definitions

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
Datafile Name: **ZIP1.PAT**							
25	STATE_FIPS	2	2	C	-		27
	CNTY_FIPS	3	3	C	-		
30	FIPS	5	5	C	-		
35	ZIP	5	5	C	-		

APPENDIX A. STANDARD ABBREVIATIONS

Abbreviations generally are specific to a layer; for example, the word 'LAKE' may be abbreviated as part of a lake name, but not as part of a road name.

RDS2-NAME

ALT:	Alternate
AVE:	Avenue
BLVD:	Boulevard
CR:	County Road
DR:	Drive
E:	East
GR:	Grade
HWY:	Highway
I:	Interstate
IR:	Indian Road, Indian Route
LN:	Lane
N:	North
RD:	Road
S:	South
SH:	State Highway, State Route
ST	Street
TR	Trail
US	U.S. Highway
W	West

STR2-NAME/STR4-NAME/LAK4-NAME

ARY	Arroyo
BR	Branch
CK	Creek
E	East
FK	Fork
L	Left
LK	Lake
LT	Little
LWR	Lower
M	Middle
MSH	Marsh
N	North
PD	Pond
R	Right
RES	Reservoir
RV	River
S	South
SL	Slough
SPG	Spring
UPR	Upper
W	West

Numbers that are spelled out may be abbreviated using digits; for example, 'TWENTY-SEVEN MILE CREEK' may be abbreviated as '27 MILE CK'.

APPENDIX B. STANDARD ATTRIBUTE ITEMS

The following list of attribute items are always present in an ARC/INFO coverage, depending on the coverage topology type. A Point or Polygon Attribute Table (PAT) always exists for point, polygon, network, or link coverages. An Arc Attribute Table (AAT) always exists for line, network, or link coverages. Additional (non-standard) attribute items may be added after the user-ID. These items are documented in the main section of the DOG under each layer.

Polygon and Point Attribute Table Items (<layer>.PAT)

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
1	AREA	8	18	F	5	-	Area of the polygon in coverage units *
9	PERIMETER	8	18	F	5	-	Perimeter of the polygon coverage units *
17	<layer>#	4	5	B	-	-	Internal ID value
21	<layer>-ID	4	5	B	-	-	User-defined ID value

* Point coverages will always have a value of 0.0 for area and perimeter.

Arc Attribute Table Items (<layer>.AAT)

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
1	FNODE#	4	5	B	-	-	From node of arc
5	TNODE#	4	5	B	-	-	To node or arc
9	LPOLY#	4	5	B	-	-	ID of the polygon on the left of the arc
13	RPOLY#	4	5	B	-	-	ID of the polygon on the right of the arc
17	LENGTH	8	18	F	5	-	Length of the arc in coverage units
25	<layer>	4	5	B	-	-	Internal ID value
29	<layer>-ID	4	5	B	-	-	User-defined ID value

Node Attribute Table Items (<layer>.NAT)

Col	Item Name	Width	Output	Type	# Dec	Alt Name	Content
1	ARC#	4	5	B	-	-	Number of the arc which terminates at the node
5	<layer>#	4	5	B	-	-	Internal ID value
9	<layer>-ID	4	5	B	-	-	User-defined ID value

All polygon and network layers will have item ACRES as the final item in the .PAT. All line layers will have an item MILES as the final item in the .AAT. These items are added and calculated automatically by the SCADDLAYER command.

n	ACRES	8	15	F	3	-
n	MILES	8	18	F	5	-

APPENDIX C. LAYER ABBREVIATIONS

The following layers may exist in any or all of the 24K, 100K, and 250K resource libraries. Any of the layer abbreviations may indicate topology type by the inclusion of a number at the end of the layer name. Refer to page 5 of the Database Organization Guidelines for further explanation

ABD4 ..... AGENCY BOUNDARY
ADS ..... AERIAL DETECTION SURVEY (FTHALL)
AGR ..... AGRICULTURE (JICARI)
** AGR layers exist indicating year of study and type of topology, e.g. AGR923
ALB ..... ALLOTMENT BOUNDARY
ARC ..... ARCHAEOLOGICAL SITES (1,3)
ARC4 ..... HISTORIC SITES AND TRIBAL SACRED GROUNDS (ROCKYB)
ARC691 ..... ARCHAEOLOGICAL SITES, 1969
ASP ..... ASPECT
ASUR2 ..... ARCHAEOLOGICAL SURVEYED LINES (ROCKYB)
ASUR4 ..... ARCHAEOLOGICAL SURVEYED POLYS (ROCKYB)
BAS4 ..... SURFACE WATER DRAINAGE BASIN (NARRAG)
BCF ..... BUILDINGS AND CULTURAL FEATURES
BEN ..... BALD EAGLE NESTS
BGD ..... BIG GAME DISTRIBUTION
BGR ..... BIG GAME RANGES
BLD ..... BUILDINGS (BLDGS & RELATED FEATURES)(1,3)
BLK ..... MANAGEMENT BLOCKS (MENOMINEE)
BNP ..... BADLANDS NATL. PARK BOUNDARY
CAN ..... CANALS and LATERALS INVENTORY (COLRIV)
CBD ..... COMPARTMENT BOUNDARY
CDA ..... COAL DATA - PLATE 1
CDB ..... COAL DATA - PLATE 2
CDC ..... COAL DATA - PLATE 3
CDD ..... COAL DATA - PLATE 4
CDE ..... COAL DATA - PLATE 5
CEM ..... CEMETARIES (KALISP)
CFI ..... CONTINUOUS FOREST INVENTORY POINTS
CLA ..... CULTURAL AREAS
CLB4 ..... CEDED LANDS BOUNDARY (CROW, MINN)
CLS ..... COMPETENT LEASE SITE (CROW)
CLT ..... CULTURAL FEATURES
CMT ..... COMMITTED AREAS
COD ..... COUNCIL DISTRICTS (FTTOTN, GILARV)
COL ..... COAL RESOURCES
COM ..... COMMUNICATIONS (NPAFIR)
COMM ..... COMMUNITY BOUNDARIES (CHOCTW, HANNAH, WINWIS)
CON ..... CONTOURS
CPA ..... CULTIVATED PLANT AREAS
CPG ..... CAMPGROUNDS
CTH ..... COAL CORE TEST HOLES
CTY ..... COUNTY BOUNDARY
CUL ..... CULTIVATED AREAS
CUT ..... CUT BLOCKS (TIMBER HARVEST)
DEM ..... DIGITAL ELEVATION MODELS

DIKE2 ..... RIVER FLOOD PROTECTION DIKES (COLRIV)
DMI ..... DWARF MISTLETOE INFECTION (FLATHD)
DRAIN2..... NATURAL RIVERS, WASHES and DRAINS (COLRIV)
DTW ..... DEPTH TO WATER
EAS..... EASEMENTS
EBH ..... ELK HABITAT
ECB ..... EVENAGE CUTTING BLOCKS (FLATHD)
EFL ..... ELECTRIC FEEDER LINES (SPOKAN)
EMC..... ELK MIGRATION CORRIDOR (JICARI)
ESC ..... ESCARPMENTS
FBK..... FIRE FUEL BREAKS
FCP4..... FOREST CANOPY
FFR..... FOREST FUEL RATINGS
FHA..... FOREST HABITAT
FISH4..... FISH PONDS (COLRIV)
FIELD4..... FIELD BOUNDARIES w/LAND STATUS (COLRIV)
FIG..... FIRE IGNITION (1,3) (NCHEYE)
FLC..... FOREST LAND CLASS
FLD4..... FLOOD ZONE
FMI4..... FOREST MANAGEMENT INVENTORY (NAMBE)
FMS..... FOREST MANAGEMENT SYSTEMS
FMU..... FOREST MANAGEMENT UNIT BOUNDARY
FMZ..... FIRE MANAGEMENT ZONE (NCHEYE)
FPP..... FOREST PHOTOPOINTS
FRA..... FIRE : AGENCY AREA
FRC..... FOREST ROAD COMPARTMENTS
FRD..... FOREST ROADS
FRH..... FIRE : MAN (HUMAN) CAUSED
FRL..... FIRE : LIGHTNING CAUSED
FRM..... FARMS/FARMLAND
FRMA..... FARMLAND (FTBELN)
FRO..... FIRE OCCURRENCE (FOR ALL TIME) (NCHEYE)
FROA..... LARGE FIRES
FROC..... FIRE OCCURRENCE (NCHEYE)
FRO1..... 10 YEAR FIRE OCCURRENCE
FRO3..... FIRE HISTORY
FRS..... FISHING RIGHTS SITES
FRU..... FOREST ROAD UNITS
FSH..... FISH HABITAT
FST..... FOREST SUITABILITY
FUA..... FOREST USAGE AREAS
FWM..... FISH AND WILDLIFE MGMT
GAM..... GAME PARK (JICARI)
GAS..... GAUGING STATIONS
GATE1..... IRRIGATION GATE INVENTORY (COLRIV)
GBH..... GRIZZLY BEAR HABITAT (BLAKFT)
GCS..... GEOCHEMICAL STUDIES (FLATHD)
GEF..... GEOLOGICAL FEATURES
GEO1..... GEO-REFERENCE CONTROL POINTS (1' TICS)
GMF2..... GEOMORPH FEATURES (YAKNEW)

GPL..... GAS PIPELINES (JICARI)
GRZ ..... GRAZING, GRAZING UTILIZATION
GWR4..... GROUNDWATER RECHARGE AREA (NARRAG)
GWS4..... GROUNDWATER RESERVOIRS (NARRAG)
HAB ..... HABITAT
HIR..... HISTORICAL IRRIGATION
HNR1,4..... HISTORICAL SITES ON NAT'L REGISTER (NARRAG)
HNRC4 ..... HISTORICAL SITES ON NAT'L REGISTER, CANDIDATE (NARRAG)
HOG..... HOGANS
HOM4 ..... HOMESTEADS OF 1878 (FLANDR)
HOS..... HOUSING
HRB ..... HISTORICAL RESERVATION BOUNDARY (FTBELN)
HSP ..... HELISPOTS
HYD ..... HYDROLOGY (1, 2, & 3) (COLVIL, YAKIMA) (DLG derived)
IAR..... INITIAL ATTACK RESOURCES (JICARI)
IAZ ..... INITIAL ATTACK ZONES
IBD..... INTERNATIONAL BOUNDARY
IDT ..... IRRIGATION DISTRICTS, IRRIGATION PROJECTS
ILB4 ..... INDIAN LAND BOUNDARY (MINNCD)
IMP1 ..... INTERNATIONAL MILEPOST MARKERS
INF..... INTERIOR FENCES
INF1..... INTERIOR FENCES (ROSEBD) (gates)
IRB..... IRRIGATED LAND BDY (WINDRV) (formerly IRL)
IRD..... IRRIGATION DITCHES, IRRIGATION CANALS
IRL ..... IRRIGATED LAND
IRS..... IRRIGATION SUITABILITY
ISL ..... IRRIGATED SOILS
IST ..... IRRIGATION STRUCTURES
LAK..... LAKES, PONDS & RESERVOIRS
LAK4_100K..... LAKES (TIGER 92) (PYRAMD)
LAQ..... LAND ACQUISITION
LCN..... LAND COVER (NHAP DERIVED)
LCS..... LAND COVER (SPOT DERIVED)
LCT ..... LAND COVER (TM DERIVED)
LDS..... LEASED FEE LANDS (HOOPA)
LEA..... LEASED FARM LANDS
LGU ..... LOGGING UNITS
LMU ..... LAND MANAGEMENT UNITS
LOC1 ..... IRRIGATION LOCATIONAL REFERENCE INVENTORY (COLRIV)
LOT4..... LOT LINES
LPD3..... LUMMI PLANNING DEPT (1:400, 1:200)
LPS..... LODGEPOLE PINE STANDS
LRS..... LAKE ROOSEVELT SURVEY (SPOKAN)
LSA..... LIVESTOCK ASSOCIATION
LSAT..... LANDSAT DATA
LSE..... LEASES
LST ..... LAND OWNERSHIP (LAND STATUS)
** various permutations of LST exist, with and without topology indicator
LTK ..... LAND TRACTS
LUC4..... LAND USE COVER (CHOCTW)
LUS4_24K ..... LAND USE (WASHOE COUNTY) (PYRAMD)

LU3 ..... LOGGING UNIT, THIRD CUT (SPOKAN)
MDH..... MULE DEER HABITAT
MDS..... MUDDY SAND
MNS..... MONITORING SITES
MP2 ..... MANAGEMENT PLANNING ALTERNATIVE 2
MST4 ..... MINERAL TRACT OWNERSHIP (LTMS)
MTEXT1 ..... MAP ANNOTATION
NGS1..... NATIONAL GEODETIC SURVEY
NIR..... NAMBE PUEBLO WITH INHOLDINGS
NOX..... NOXIOUS WEEDS (NCHEYE)
NWIE ..... NATIONAL WETLANDS INVENTORY - EAST (YAKIMA)
NWIW ..... NATIONAL WETLANDS INVENTORY - WEST (YAKIMA)
NWI..... NATIONAL WETLANDS INVENTORY (1 & 2) (FONDDU, MAKAH)
NXW ..... NOXIOUS WEEDS
** several NXW layers exist indicating year of study and topology type, e.g. NXW914
OAB ..... ORIGINAL ALLOTMENT BOUNDARY
OAM..... OTHER AGENCY MANAGEMENT (JOINT AREA MGMT)
OGL ..... OIL AND GAS LEASES
OGS..... OIL AND GAS SITES
OGT..... OIL AND GAS TRANSMISSION LINES
OGW..... OIL AND GAS WELLS
ONS..... OSPREY NEST SITES
OPR..... OPERABILITY
OWS..... OBSERVATION WELL STATION
OWN..... BASIC OWNERSHIP (NPAFIR)
OWN4_24K ..... OWNERSHIP (WASHOE COUNTY) (PYRAMD)
PAL..... PALEONTOLOGICAL RESOURCES
PBD ..... PARTITION LAND BOUNDARY
PBH ..... PRESCRIBED BURN HISTORY
PCODE4_24K.. PROPERTY CODES (PYRAMD)
PCS ..... PLANT COMMUNITIES
PCT..... PRE-COMMERCIAL THINNING
PDT..... PRAIRIE DOG TOWNS
** several PDT layers exist indicating year of study and topology type, e.g. PDT923
PEA..... PEABODY COAL LEASE
PHS4 ..... (WILDLIFE) PRIORITY HABITAT & SPECIES (MAKAH)
PIL ..... POTENTIALLY IRRIGABLE LAND
PIPE2..... WATER PIPELINES (COLRIV)
PLO..... PLOW OUT AREAS
PLS..... PUBLIC LAND SURVEY
PLX..... TOWNSHIP AND RANGE (NAV100)
POS4 ..... PROTECTED OPEN SPACE (NARRAG)
POW ..... POWER LINES (ALACOU)
PPM..... POST AND POLE MGMT (FLATHD)
PRM..... PRIMITIVE ASREA
PRS ..... POTENTIAL RESERVOIRS
PRZ..... PRECIPITATION ZONES
PST..... PASTURE BOUNDARY
PTC..... PHOTO CENTERS
PTL ..... PIPELINES AND TRANSMISSION LINES

PTM ..... PROPOSED TIMBER MANAGEMENT
PTR..... PROPOSED TIMBER TRANSPORTATION
PUB4_24K..... PUBLIC LANDS (PYRAMD)
PUMP1 ..... IRRIGATION PUMP INVENTORY (COLRIV)
PZN..... PLANNING ZONES
QUAD ..... 7.5 ' QUADRANGLE INDEX (all one-tile libraries)
R##A..... RIVER REACH DATA (POLYGONAL)
R##L ..... RIVER REACH DATA (LINEAR)
RBD ..... RESERVATION BOUNDARY
** various permutations of RBD exist, with and without topology indicator
RCL..... RECREATION, CEMETARIES, LANDFILL SITES (PT)(SPOKAN)
RCO..... RANGE CONDITION
RDS ..... ROADS (USE TRN FOR NEW TASKS)
REA ..... RELIGIOUS AREAS
REC ..... RECREATIONAL AREAS
REF..... REFORESTATION AREAS
RES ..... RESTRICTED ACCESS
RFA..... REFORESTATION AREAS
RIM ..... RANGE IMPROVEMENTS (1, 2 & 3)
RIP..... RIPARIAN SURVEY
ROAD2 ..... PAVED and UNPAVED ROADS (COLRIV)
ROT ..... ROOT ROT SURVEY (POINT) (SPOKAN)
RRC ..... RIVER REACH CATALOUGE UNITS
RRS ..... RAILROADS
RRW ..... RAILROAD ROW (COLRIV)
RR2..... RIVER REACH
RSC ..... RANGE SOIL CONDITION
RSI..... RANGE SITE INDEX
RSIDEW ..... RANGE SITE INDEX, DEWEY COUNTY (CHEYRV)
RSIZIEB..... RANGE SITE INDEX, ZIEBACH COUNTY (CHEYRV)
RSL..... RANGE SOILS
RSP ..... RANGE SITE PRODUCTION
RUN ..... RANGE UNIT BOUNDARY (RANGE UNITS)
RUT ..... RANGE UTILIZATION
RVA ..... RESOURCE VALUE AIR (NPAFIR)
RVC ..... RESOURCE VALUE (CRITTERS) WILDLIFE (NPAFIR)
RVF..... RESOURCE VALUE FOREST (NPAFIR)
RVFL..... RESOURCE VALUE FARMLAND (NPAFIR)
RVR ..... RESOURCE VALUE RECREATION (NPAFIR)
RVS ..... RESOURCE VALUE SOILS (NPAFIR)
RVW ..... RESOURCE VALUE WATER (NPAFIR)
RWA ..... RANGE WATER (1, 2 & 3)
SAB..... STUDY AREA BOUNDARY
SBD ..... STATE BOUNDARY
SBI ..... SPRUCE BUDWORM INFESTATION
SCD ..... SCHOOL DISTRICT BOUNDARIES (FTTOTN)
SCT..... SURFACE COVER TYPE
SCX ..... SURFACE COVER TYPE - 10,000 ADDT'L ACRES (WEARTH)
SEW4_24K..... SEWER MAINTENANCE RESPONSIBILITY (PYRAMD)
SFC..... SURFACE (SURFACE FEATURES ??)
SFT4..... SURFACE TRACT OWNERSHIP (LTMS)

SHO ..... SHOTHOLES
SLP ..... SLOPE
SLS ..... SOILS
SLSCOR4 ..... SOILS, CORSON COUNTY (STROCK)
SLSDUNN..... SOILS, DUNN COUNTY (FTBRTH)
SLSMCLEAN ... SOILS, MCCLEAN COUNTY (FTBRTH)
SLSMERC ..... SOILS, MERCER COUNTY (FTBRTH)
SLSMCKZ..... SOILS, MCKENZIE COUNTY (FTBRTH)
SLSSIOUX..... SOILS, SIUOX COUNTY (STROCK)
SLSZIEB ..... SOILS, ZIEBACH COUNTY (CHEYRV)
** other SLS layers may be found with county-specific names
SMA ..... SPECIAL MANAGEMENT AREAS
SML ..... SUB-MARGINAL LANDS
SPF..... SPECIAL FEATURES
SPG ..... SPRINGS
SPL..... SPRINKLED LANDS
SPN ..... SPRINKLER LINES
SPT..... SPRINGS, TANKS & WELLS
SPT3..... TANKS (POLYGON) (JICARI)
SRL..... SPECIAL RISK LANDFILL (NPAFIR)
SSP..... SOIL SAMPLE POINTS
STR..... STREAMS & RIVERS (2 & 3)
STREET4_24K STREET MAINTENANCE RESPONSIBILITY (PYRAMD)
STRUCT ..... IRRIGATION and OTHER MISC STRUCTURES (1 & 2) (COLRIV)
STR2WTL..... STREAM THRU WETLAND (SANTEE)
SUR1 ..... GEODECTIC SURVEY POINTS (NARRAG)
TAX4_24K ..... TAX DISTRICT (PYRAMD)
TBD4..... TOWNSITE BOUNDARY (COLRIV)
TCG ..... THERMAL COVER TYPE-GOOD (LANDSAT derived)
TCK..... TICK MARKS (FROM BASE MAP)
TCM..... THERMAL COVER TYPE-MARGINAL (LANDSAT derived)
TCS..... THERMAL COVER TYPE-SUBMARGINAL (LANDSAT derived)
TDL..... TRADITIONAL LANDS
TEP..... THREATANED AND ENDANGERED PLANTS
THN ..... THINNING AREAS
TMA4 ..... TIMBER MANAGEMENT AREA (ZUNI)
TML..... TRANSMISSION LINES (JICARI)
TMU..... TIMBER MANAGEMENT UNITS
TOP4 ..... TOWN OF PARKER (COLRIV)
TOW ..... TOWERS
TPT1..... TRIANGULATION POINTS (TULERV)
TRE..... GRAZING TRENDS (COLRIV)
TRI..... TOTAL RESOURCE INVENTORY (TRI MAPS)
TRL..... TRAILS
TRN ..... TRANSPORTATION
TRP..... TREE PLANTING AREAS (USE REF FOR NEW TASKS)
TRS4..... TIMBER RESERVE SITES
TSI ..... TIMBER STAND IMPROVEMENTS
TSN..... TIMBER STAND NUMBER (CORDLN)
TSU..... TIMBER SALE UNITS (TIMBER SALE AREAS)

TTS4 ..... TIMBER TYPE/STAND (CORDLN)
TTY ..... TIMBER TYPES
TTYM ..... TIMBER TYPES, MODIFIED (ABERDEEN AREA)
TWN ..... TOWNS & CITIES
TWP ..... TOWNSHIP BOUNDARIES (CHERKE, NARRAG)
UTIL ..... UTILITY POLES (COLRIV)
UTL ..... UTILITY LINES
UTL2_100k ..... UTILITY LINES (PYRAMD)
UTL2_24K ..... UTILITY LINES
UZN ..... USE ZONES
VEG ..... VEGETATION
VRC ..... VISUAL RESOURCE CORRIDOR
WAT4_24K ..... WATER MAIN MAINTENANCE RESPONSIBILITY (PYRAMD)
WDS ..... WILDERNESS (TRIBAL OR OTHER)
WEL ..... WELL DATA (SPOKAN, KALISP) (from USGS)
WET ..... WETLANDS (CHOCTW)
WLC ..... WATER LEVEL CHANGE
WLD ..... WILDLIFE AREAS
WLI1 ..... WILDLIFE INVENTORY (MAKAH)
WLI4 ..... WILDLIFE INVENTORY (MAKAH)
WLS ..... WILDLIFE SIGHTINGS (POINT) (SANCAR)
WLV ..... WATER LEVEL
WMU ..... WILDLIFE MANAGEMENT UNITS
WPA ..... WILDERNESS AND PRIMITIVE AREAS
WSA ..... WATERSHED BOUNDARY
WSE ..... WATER SURFACE ELEVATION
WSR ..... WILDLIFE SEASONAL RANGE (WARMSP)
WTL ..... WETLAND (SANTEE)
WTM ..... WOODLANDS (from TM)
WUP1 ..... WASTE USE PERMITS (LWBRUL)
XXIRD ..... TEMPORARY IRRIGATION (FTYUMA-LST TASK)
XXTRN ..... TEMPORARY TRANSPORTATION (FTYUMA-LST TASK)
YPS ..... YARDING
ZON4_24K ..... ZONING CODES (PYRAMD)

A library name appearing in parentheses after a layer name indicates the layer is unique to that library(s).

The following layers exist in the USA or USAONE libraries. The first two characters of the layer name usually indicate the state in which the data resides. If no state abbreviation is present, the data is either regional or nation-wide. The agency providing the data is listed in parentheses

AZLAND3 ..... Land Ownership (ALRIS)
AZPLX ..... Township and Range grid (ALRIS)
BIAAO ..... BIA Area Offices
BIA_ORG1 ..... BIA Agencies
BIA_SCH1 ..... BIA Schools
BLM95 ..... Bureau of Land Management Lands - 1995
CARBD ..... Reservation Boundaries
COUNTIES ..... Counties for the lower 48 states

ECOREG ..... Ecological Regions of the US (USFS)
FERC1 ..... Federal Energy Regulatory Commission - Hydro Sites
GRID ..... One degree latitude - longitude grid
HUC2M ..... Hydrologic Unit Codes, 1:2M
HUC250 ..... Hydrologic Unit Codes, 1:250K
IDNPDES1 ..... Environmental data (US EPA Region 10)

The following layers contain various data on insect infestation and disease for National Forests in Idaho . Layer names are based on the following key:

CAR - Carson NF CT - Caribou/Targhee NF WC - Wasatch/Caribou NF
ST - State of Idaho Suffix P - polygonal data, T - point data, L - line data

IDCAR86P	IDCAR86T	IDCAR87P	IDCAR87T	IDCAR88P	IDCAR88T
IDCAR89P	IDCAR89T	IDCAR90P	IDCAR90T	IDCAR91P	IDCAR91T
IDCAR92P	IDCAR92T	IDCAR93P	IDCAR93T	IDCAR94P	IDCAR94T
IDCST91L	ICST91P	IDCST91T	IDCT86P	IDCT86T	IDCT87P
IDCT87T	IDCT89P	IDCT89T	IDCT90P	IDCT90T	IDCT91P
IDCT91T	IDST92P	IDST92T	IDST93P	IDST93T	IDSTA94P
IDSTA94T	IDWC87P	IDWC87T	IDWC89P	IDWC89T	IDWC90P
IDWC90T	IDWC91P	IDWC91T	IDWC92P	IDWC92T	IDWC93P
IDWC93T	IDWC94P	IDWC94T			

IHS1 ..... Indian Health Service Sites
JUD6 ..... Judicial Districts
MIL1 ..... Military Bases
MIL95 ..... Proposed Base Closure and Re-alignment Sites - 1995
MNECOREG ..... Ecological Regions (LMIC)
MNWSHED ..... Watersheds (LMIC)
NCSLSMACON ..... Soils, Macon County (USDA NRCS)
NYEBASE ..... Environmental base data (NYS DOH)
NYHAZSITE ..... Hazardous Waste Sites (NYS DOH)
NYTRIFAC89 ..... Industrial Sites (NYS DOH)
ORNPDES1 ..... Environmental data (US EPA Region 10)
RBD ..... Reservation Boundaries
SDSLSLYMAN ..... Soils, Lyman County (USDA NRCS)
STATES ..... Lower 48 states
TRIBAL_ORG1 ..... Tribal Headquarter Sites
UTMZONE ..... Universal Transverse Mercator Zones 10 - 19
WACERC1 ..... CERCLA Sites (US EPA Region 10)
WANPDES1 ..... Environmental data (US EPA Region 10)
WARCRA1 ..... RCRA Sites (US EPA Region 10)

APPENDIX D. GENERAL GROUP LISTING OF LAYERS.

AGRICULTURE

AG AGR...AGRICULTURE
AG CPA...CULTIVATED PLANT AREAS
AG CUL...CULTIVATED AREAS
AG FRM...FARMS/FARMLAND
AG FRMA..FARMLAND
AG HIR...HISTORICAL IRRIGATION
AG IDT...IRRIGATION DISTRICTS, IRRIGATION PROJECTS
AG INF...INTERIOR FENCES
AG IRB...IRRIGATED LANDS BOUNDARY (formerly IRL)
AG IRD...IRRIGATION DITCHES, IRRIGATION CANALS
AG IRL...IRRIGATED LAND
AG IRS...IRRIGATION SUITABILITY
AG ISL...IRRIGATED SOILS
AG IST...IRRIGATION STRUCTURES
AG LEA...LEASED FARM LANDS
AG LST...LAND OWNERSHIP (LAND STATUS)
AG NOX...NOXIOUS WEEDS
AG PIL...POTENTIALLY IRRIGABLE LAND
AG PLO...PLOW OUT AREAS
AG PLS...PUBLIC LAND SURVEY
AG RVFL..RESOURCE VALUE FARMLAND
AG SLS...SOILS
AG SML...SUB-MARGINAL LANDS
AG SPL...SPRINKLED LANDS
AG SPN...SPRINKLER LINES

ARCHAEOLOGY

AR ARC1..ARCHAEOLOGICAL SITES (1,3,4)
AR ASUR..ARCHAEOLOGICAL SURVEYED (2,3)
AR CLA...CULTURAL AREAS
AR CLT...CULTURAL FEATURES
AR REA...RELIGIOUS AREAS
AR TDL...TRADITIONAL LANDS

BASE

BA BLD...BUILDINGS (BLDGS & RELATED FEATURES)
BA CPG...CAMPGROUNDS
BA CTY...COUNTY BOUNDARY
BA LAK...LAKES, PONDS & RESERVOIRS
BA LST...LAND OWNERSHIP (LAND STATUS)
BA OAM...OTHER AGENCY MANAGEMENT (JOINT AREA MGMT)
BA PLS...PUBLIC LAND SURVEY
BA PTL...PIPELINES AND TRANSMISSION LINES
BA RBD...RESERVATION BOUNDARY
BA RDS...ROADS (USE TRN FOR NEW TASKS)
BA SBD...STATE BOUNDARY

BA SLS...SOILS
BA SPT...SPRINGS, TANKS & WELLS
BA STR2..STREAMS & RIVERS:LINEAR
BA STR3..STREAMS & RIVERS:POLYGONAL
BA TRN...TRANSPORTATION

BOUNDARY
BD ALB...ALLOTMENT BOUNDARY
BD BNP...BADLANDS NATL. PARK BOUNDARY
BD CBD...COMPARTMENT BOUNDARY
BD CLB4..CEDED LANDS BOUNDARY
BD CMT...COMMITTED AREAS
BD COD...COUNCIL DISTRICTS
BD COMM..COMMUNITY BOUNDARIES
BD CTY...COUNTY BOUNDARY
BD GAM...GAME PARK
BD IAZ...INITIAL ATTACK ZONES
BD IDT...IRRIGATION DISTRICTS, IRRIGATION PROJECTS
BD INF...INTERIOR FENCES
BD NIR...NAMBE PUEBLO WITH INHOLDINGS
BD OAB...ORIGINAL ALLOTMENT BOUNDARY
BD OAM...OTHER AGENCY MANAGEMENT (JOINT AREA MGMT)
BD PBD...PARTITION LAND BOUNDARY
BD PEA...PEABODY COAL LEASE
BD PLS...PUBLIC LAND SURVEY
BD PRM...PRIMITIVE AREAS
BD PST...PASTURE BOUNDARY
BD PZN...PLANNING ZONES
BD QUAD..7.5' QUADRANGLE INDEX (FOR ONE TILE LIBRARIES)
BD RBD...RESERVATION BOUNDARY
BD RES...RESTRICTED ACCESS
BD RUN...RANGE UNIT BOUNDARY (RANGE UNITS)
BD SAB...STUDY AREA BOUNDARY
BD SBD...STATE BOUNDARY
BD SCD...SCHOOL DISTRICT BOUNDARIES
BD SMA...SPECIAL MANAGEMENT AREAS
BD TWN...TOWNS & CITIES
BD TWP...TOWNSHIP BOUNDARIES
BD UZN...USE ZONES
BD WDS...WILDERNESS (TRIBAL OR OTHER)
BD WPA...WILDERNESS AND PRIMITIVE AREAS

BUILDINGS
BU BLD...BUILDINGS (BLDGS & RELATED FEATURES)
BU HOG...HOGANS
BU HOS...HOUSING
BU RCL...RECREATION, CEMETERIES, LANDFILL SITES (PT)
BU REC...RECREATIONAL AREAS

COAL

CO	CA...COAL DATA - PLATE 1
CO	CDB...COAL DATA - PLATE 2
CO	CDC...COAL DATA - PLATE 3
CO	CDD...COAL DATA - PLATE 4
CO	CDE...COAL DATA - PLATE 5
CO	COL...COAL RESOURCES
CO	CTH...COAL CORE TEST HOLES
CO	PEA...PEABODY COAL LEASE

FIRE

FI	COM...COMMUNICATIONS
FI	FBK...FIRE FUEL BREAKS
FI	FFR...FOREST FUEL RATINGS
FI	FIG...FIRE IGNITION (1,3)
FI	FMZ...FIRE MANAGEMENT ZONES
FI	FRA...FIRE : AGENCY AREA
FI	FRH...FIRE : MAN (HUMAN) CAUSED
FI	FRL...FIRE : LIGHTNING CAUSED
FI	FRO...FIRE OCCURANCE (FOR ALL TIME)
FI	FRO1..10 YEAR FIRE OCCURANCE
FI	FRO3..FIRE HISTORY
FI	FROA..LARGE FIRES
FI	FROC..FIRE OCCURANCE
FI	HSP...HELISPOTS
FI	IAR...INITIAL ATTACK RESOURCES
FI	IAZ...INITIAL ATTACK ZONES
FI	PBH...PRESCRIBED BURN HISTORY

FISH

FS	FSH...FISH HABITAT
FS	FRS...FISHING RIGHTS SITES

GEOLOGY

GE	CA...COAL DATA - PLATE 1
GE	CDB...COAL DATA - PLATE 2
GE	CDC...COAL DATA - PLATE 3
GE	CDD...COAL DATA - PLATE 4
GE	CDE...COAL DATA - PLATE 5
GE	COL...COAL RESOURCES
GE	CTH...COAL CORE TEST HOLES
GE	DTW...DEPTH TO WATER
GE	GCS...GEOCHEMICAL STUDIES
GE	GEF...GEOLOGICAL FEATURES
GE	GPL...GAS PIPELINES
GE	MDS...MUDDY SAND
GE	OGL...OIL AND GAS LEASES
GE	OGS...OIL AND GAS SITES
GE	OWS...OBSERVATION WELL STATION
GE	PAL...PALEONTOLOGICAL RESOURCES
GE	PEA...PEABODY COAL LEASE

GE PTL...PIPELINES AND TRANSMISSION LINES
GE SHO...SHOTHOLES

HUMAN
HU EAS...EASEMENTS
HU EFL...ELECTRIC FEEDER LINES
HU HOM4..HOMESTEADS OF 1878
HU HSP...HELISPOTS
HU RCL...RECREATION, CEMETERIES, LANDFILL SITES (PT)
HU TOW...TOWERS
HU TPT...TRIANGULATION POINTS
HU TWN...TOWNS & CITIES
HU VRC...VISUAL RESOURCE CORRIDOR
HU UTL...UTILITY LINES

INFRASTRUCTURE
IN EFL...ELECTRIC FEEDER LINES
IN POW...POWER LINES
IN PTL...PIPELINES AND TRANSMISSION LINES
IN PTR...PROPOSED TIMBER TRANSPORTATION
IN RDS...ROADS (USE TRN FOR NEW TASKS)
IN RRS...RAILROADS
IN TML...TRANSMISSION LINES
IN TRL...TRAILS
IN TRN...TRANSPORTATION

LAND
LA CMT...COMMITTED AREAS
LA LMU...LAND MANAGEMENT UNITS
LA OPR...OPERABILITY
LA SFC...SURFACE (SURFACE FEATURES ??)
LA SPF...SPECIAL FEATURES
LA TDL...TRADITIONAL LANDS

LIBRARY SPECIFIC
LS AGR...AGRICULTURE
LS ARC4..HISTORIC SITES AND TRIBAL SACRED GROUNDS
LS ASUR..ARCHAELOGICAL SURVEYED (2,3)
LS BLK...MANAGEMENT BLOCKS
LS CEM...CEMETERIES
LS CLB4..CEDED LANDS BOUNDARY
LS COD...COUNCIL DISTRICTS
LS COM...COMMUNICATIONS
LS COMM..COMMUNITY BOUNDARIES
LS DMI...DWARF MISTLETOE INFECTION
LS ECB...EVENAGE CUTTING BLOCKS
LS EFL...ELECTRIC FEEDER LINES
LS EMC...ELK MIGRATION CORRIDOR
LS FIG...FIRE IGNITION (1,3)
LS FMZ...FIRE MANAGEMENT ZONES

LS FROC..FIRE OCCURANCE
LS FRMA..FARMLAND
LS GAM...GAME PARK
LS GBH...GRIZZLY BEAR HABITAT
LS GCS...GEOCHEMICAL STUDIES
LS GPL...GAS PIPELINES
LS HOM4..HOMESTEADS OF 1878
LS HYD...HYDROLOGY (1,2 &3)(DLG derived)
LS IAR...INITIAL ATTACK RESOURCES
LS IRB...IRRIGATED LANDS BOUNDARY (formerly IRL)
LS LDS...LEASED FEE LANDS
LS LPD3..LUMMI PLANNING DEPT (1:400, 1:200)
LS LRS...LAKE ROOSEVELT SURVEY
LS LU3...LOGGING UNIT, 3RD CUT
LS NIR...NAMBE PUEBLO WITH INHOLDINGS
LS NOX...NOXIOUS WEEDS
LS NWIE..NATIONAL WETLANDS INVENTORY-EAST
LS NWIW..NATIONAL WETLANDS INVENTORY-WEST
LS NWI...NATIONAL WETLANDS INVENTORY (1 &2)
LS OWN...BASIC OWNERSHIP
LS POW...POWER LINES
LS PPM...POST AND POLE MGMT
LS RCL...RECREATION, CEMETERIES, LANDFILL SITES (PT)
LS ROT...ROOT ROT SURVEY (POINT)
LS RVA...RESOURCE VALUE AIR
LS RVC...RESOURCE VALUE (CRITTERS) WILDLIFE
LS RVF...RESOURCE VALUE FOREST
LS RVFL..RESOURCE VALUE FARMLAND
LS RVR...RESOURCE VALUE RECREATION
LS RVS...RESOURCE VALUE SOILS
LS RVW...RESOURCE VALUE WATER
LS SCD...SCHOOL DISTRICT BOUNDARIES
LS SCX...SURFACE COVER TYPE - 10K ADD'L ACRES
LS SLSDUNN.SOILS DUNN COUNTY
LS SLSMCLEAN.SOILS MCLEAN COUNTY
LS SLSMERC.SOILS MERCER COUNTY
LS SLSMCKZ.SOILS MCKENZIE COUNTY
LS SLSSIOUX.SOILS SIOUX COUNTY
LS SLSZIEB.SOILS ZIEBACH COUNTY
** other sls layer may be found with county specific names
LS SPT3..TANKS (POLYGONAL)
LS SRL...SPECIAL RISK LANDFILL
LS STR2WTL.STREAM THROUGH WETLAND
LS TML...TRANSMISSION LINES
LS TPT...TRIANGULATION POINTS
LS TRE...GRAZING TRENDS
LS TSN...TIMBER STAND NUMBER
LS TTS4..TIMBER TYPE/STAND
LS TTYM..TIMBER TYPES, MODIFIED
LS TWP...TOWNSHIP BOUNDARIES
LS WEL...WELL DATA(from USGS)

LS WET...WETLANDS
LS WLS...WILDLIFE SIGHTINGS (POINT)
LS WTL...WETLANDS
LS XXIRD.TEMPORARY IRRIGATION
LS XXTRN.TEMPORARY TRANSPORTATION

OWNERSHIP
OW EAS...EASEMENTS
OW FRM...FARMS/FARMLAND
OW LAQ...LAND ACQUISITION
OW LDS...LEASED FEE LANDS
OW LEA...LEASED FARM LANDS
OW LSE...LEASES
OW LST...LAND OWNERSHIP (LAND STATUS)
OW LTK...LAND TRACTS
OW MP2...MANAGEMENT PLANNING ALTERNATIVE 2
OW OWN...BASIC OWNERSHIP
OW PLS...PUBLIC LAND SURVEY

PLANTS
PL CPA...CULTIVATED PLANT AREAS
PL GRZ...GRAZING, GRAZING UTILIZATION
PL NXW...NOXIOUS WEEDS
PL NWIE..NATIONAL WETLANDS INVENTORY-EAST
PL NWIW..NATIONAL WETLANDS INVENTORY-WEST
PL NWI...NATIONAL WETLANDS INVENTORY (1 &2)
PL PCS...PLANT COMMUNITIES
PL ROT...ROOT ROT SURVEY (POINT)
PL TEP...THREATENED AND ENDANGERED PLANTS
PL VEG...VEGETATION

PLANIMETRIC REFERENCE
PR TCK...TICK MARKS (FROM BASE MAP)
PR GEO1..GEO-REFERENCE CONTROL POINTS (1' TICKS)

RANGE
RA GRZ...GRAZING, GRAZING UTILIZATION
RA INF...INTERIOR FENCES
RA LSA...LIVESTOCK ASSOCIATION
RA NXW...NOXIOUS WEEDS
RA PCS...PLANT COMMUNITIES
RA PDT...PRAIRIE DOG TOWNS
RA PPM...POST AND POLE MGMT
RA PST...PASTURE BOUNDARY
RA RCO...RANGE CONDITION
RA RIM1..RANGE IMPROVEMENTS
RA RIM2..RANGE IMPROVEMENTS
RA RIM3..RANGE IMPROVEMENTS
RA RSI...RANGE SITE INDEX
RA RSL...RANGE SOILS

RA RSP...RANGE SITE PRODUCTION
RA RUN...RANGE UNIT BOUNDARY (RANGE UNITS)
RA RUT...RANGE UTILIZATION
RA RWA1..RANGE WATER
RA RWA2..RANGE WATER
RA RWA3..RANGE WATER
RA SCT...SURFACE COVER TYPE
RA SML...SUB-MARGINAL LANDS
RA TEP...THREATANED AND ENDANGERED PLANTS
RA TRE...GRAZING TRENDS
RA VEG...VEGETATION

REMOTE SENSING
RS FPP...FOREST PHOTOPOINTS
RS LCN...LAND COVER (NHAP DERIVED)
RS LCS...LAND COVER (SPOT DERIVED)
RS LCT...LAND COVER (TM DERIVED)
RS LSAT..LANDSAT DATA
RS PTC...PHOTO CENTERS
RS TCG...THERMAL COVER TYPE-GOOD (LANDSAT DERIVED)
RS TCM...THERMAL COVER TYPE-MARGINAL (LANDSAT DERIVED)
RS TCS...THERMAL COVER TYPE-SUBMARGINAL (LANDSAT DERIVED)

SOILS
SL CON...CONTOURS
SL DTW...DEPTH TO WATER
SL RSL...RANGE SOILS
SL RVS...RESOURCE VALUE SOILS
SL SLS...SOILS
SL SLSDUNN.SOILS DUNN COUNTY
SL SLSMCLEAN.SOILS MCLEAN COUNTY
SL SLSMERC.SOILS MERCER COUNTY
SL SLSMCKZ.SOILS MCKENZIE COUNTY
SL SLSSIOUX.SOILS SIOUX COUNTY
SL SLSZIEB.SOILS ZIEBACH COUNTY
** other sls layer may be found with county specific names
SL SSP...SOIL SAMPLE POINTS

TIMBER
TI BLK...MANAGEMENT BLOCKS
TI CFI...CONTINUOUS FOREST INVENTORY POINTS
TI CUT...CUT BLOCKS (TIMBER HARVEST)
TI DMI...DWARF MISTLETOE INFECTION
TI ECB...EVENAGE CUTTING BLOCKS
TI FBK...FIRE FUEL BREAKS
TI FFR...FOREST FUEL RATINGS
TI FHA...FOREST HABITAT
TI FMS...FOREST MANAGEMENT SYSTEMS
TI FMU...FOREST MANAGEMENT UNIT BOUNDARY
TI FPP...FOREST PHOTOPOINTS
TI FRC...FOREST ROAD COMPARTMENTS

TI FRD...FOREST ROADS
TI FRU...FOREST ROAD UNITS
TI FST...FOREST SUITABILITY
TI FUA...FOREST USAGE AREAS
TI LGU...LOGGING UNITS
TI LPS...LODGEPOLE PINE STANDS
TI LU3...LOGGING UNIT, 3RD CUT
TI PBH...PRESCRIBED BURN HISTORY
TI PCT...PRE-COMMERCIAL THINNING
TI PTM...PROPOSED TIMBER MANAGEMENT
TI PTR...PROPOSED TIMBER TRANSPORTATION
TI REF...REFORESTATION AREAS
TI RFA...REFORESTATION AREAS
TI RVF...RESOURCE VALUE FOREST
TI SBI...SPRUCE BUDWORM INFESTATION
TI SCT...SURFACE COVER TYPE
TI THN...THINNING AREAS
TI TMU...TIMBER MANAGEMENT UNITS
TI TRI...TOTAL RESOURCE INVENTORY (TRI MAPS)
TI TRP...TREE PLANTING AREAS (USE REF FOR NEW TASKS)
TI TSI...TIMBER STAND IMPROVEMENTS
TI TSN...TIMBER STAND NUMBER
TI TTS4..TIMBER TYPE/STAND
TI TTYM..TIMBER TYPES, MODIFIED
TI YPS...YARDING

TOPOGRAPHY
TO ASP...ASPECT
TO CON...CONTOURS
TO DEM...DIGITAL ELEVATION MODELS
TO ESC...ESCARPMENTS
TO SFC...SURFACE (SURFACE FEATURES ??)
TO SLP...SLOPE

TRANSPORTATION
TR FRC...FOREST ROAD COMPARTMENTS
TR FRD...FOREST ROADS
TR FRU...FOREST ROAD UNITS
TR HSP...HELISPOTS
TR PTR...PROPOSED TIMBER TRANSPORTATION
TR RDS...ROADS (USE TRN FOR NEW TASKS)
TR RRS...RAILROADS
TR TRL...TRAILS
TR TRN...TRANSPORTATION

VALUATION/ASSESSMENT
VA RVA...RESOURCE VALUE AIR
VA RVC...RESOURCE VALUE (CRITTERS) WILDLIFE
VA RVF...RESOURCE VALUE FOREST
VA RVFL..RESOURCE VALUE FARMLAND

VA RVR...RESOURCE VALUE RECREATION
VA RVS...RESOURCE VALUE SOILS
VA RVW...RESOURCE VALUE WATER

*WATER
WA DTW...DEPTH TO WATER
WA GAS...GAUGING STATIONS
WA HIR...HISTORICAL IRRIGATION
WA HYD...HYDROLOGY (1,2 &3)(DLG derived)
WA IDT...IRRIGATION DISTRICTS, IRRIGATION PROJECTS
WA IRD...IRRIGATION DITCHES, IRRIGATION CANALS
WA IRL...IRRIGATED LAND
WA IRS...IRRIGATION SUITABILITY
WA ISL...IRRIGATED SOILS
WA IST...IRRIGATION STRUCTURES
WA LAK...LAKES, PONDS & RESERVOIRS
WA OWS...OBSERVATION WELL STATION
WA PIL...POTENTIALLY IRRIGABLE LAND
WA PRS...POTENTIAL RESERVOIRS
WA PRZ...PRECIPITATION ZONES
WA R##A..RIVER REACH DATA (POLYGONAL)
WA R##L..RIVER REACH DATA (LINEAR)
WA RIP...RIPARIAN SURVEY
WA RRC...RIVER REACH CATALOUGE UNITS
WA RVW...RESOURCE VALUE WATER
WA RWA1..RANGE WATER
WA RWA2..RANGE WATER
WA RWA3..RANGE WATER
WA SPG...SPRINGS
WA SPT...SPRINGS, TANKS & WELLS
WA SPT3..TANKS (POLYGON)
WA STR2..STREAMS & RIVERS:LINEAR
WA STR2WTL.STREAM THROUGH WETLAND
WA STR3..STREAMS & RIVERS:POLYGONAL
WA WEL...WELL DATA(from USGS)
WA WLC...WATER LEVEL CHANGE
WA WLV...WATER LEVEL
WA WSA...WATERSHED BOUNDARY
WA WSE...WATER SURFACE ELEVATION

WILDLIFE
WI BEN...BALD EAGLE NESTS
WI BGD...BIG GAME DISTRIBUTION
WI BGR...BIG GAME RANGES
WI EBH...ELK HABITAT
WI EMC...ELK MIGRATION CORRIDOR
WI FHA...FOREST HABITAT
WI FWM...FISH AND WILDLIFE MANAGEMENT
WI GAM...GAME PARK
WI GBH...GRIZZLY BEAR HABITAT

WI GRZ...GRAZING, GRAZING UTILIZATION
WI HAB...HABITAT
WI INF...INTERIOR FENCES
WI MDH...MULE DEER HABITAT
WI MNS...MONITORING SITES
WI ONS...OSPREY NEST SITES
WI PDT...PRAIRIE DOG TOWNS
WI PRM...PRIMITIVE AREAS
WI RVC...RESOURCE VALUE (CRITTERS) WILDLIFE
WI WLD...WILDLIFE AREAS
WI WLS...WILDLIFE SIGHTINGS (POINT)
WI WMU...WILDLIFE MANAGEMENT UNITS
WI WSR...WILDLIFE SEASONAL RANGE